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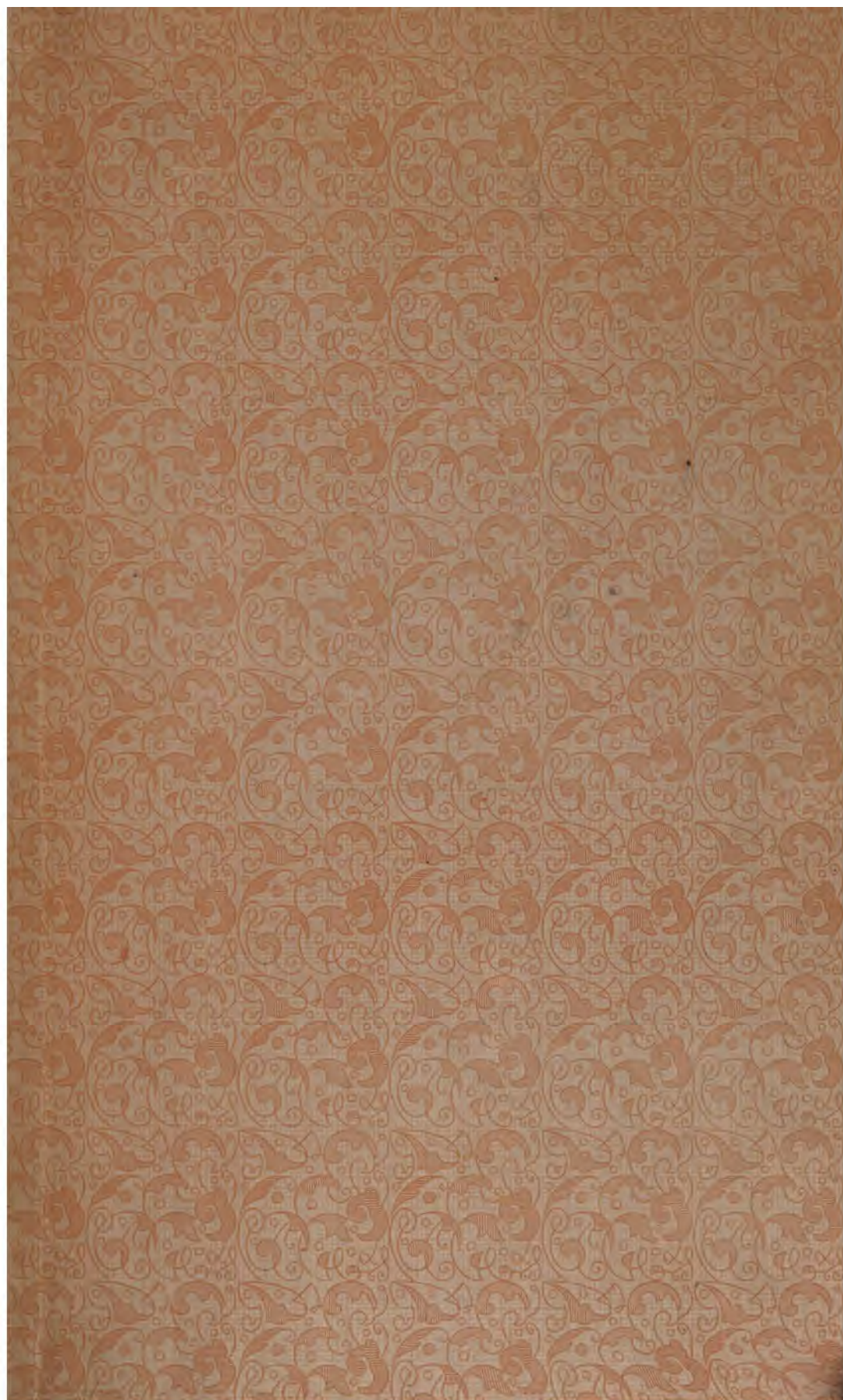
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# THE GENERA OF FISHES

FROM LINNÆUS TO CUVIER, 1758-1833, SEVENTY-FIVE YEARS,  
WITH THE ACCEPTED TYPE OF EACH.

A Contribution to the Stability of Scientific Nomenclature.

BY  
DAVID STARR JORDAN

ASSISTED BY  
BARTON WARREN EVERMANN

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## INTRODUCTION

The leading purpose of the Commission \* of the International Congress of Zoology is to give stability to nomenclature. To that end numerous cases of doubt have been resolved by the Commission. But the work done thus far has been largely piecemeal, and by this method it cannot be always made consistent with itself. Recently the Commission has undertaken to fix generic names on a larger scale, covering, for example, all those in use in a given group. In some small classes of animals this has been possible. In larger ones, it demands a study of the literature more detailed than any one has yet attempted.

Recently efforts have been made to secure stability by fiat, using names more or less current, without serious regard to the law of priority. To accept this plan would merely accentuate the confusion already existing and which has arisen through just such disregard of fundamental rules.

It seems to us that the attempts thus far have mostly begun at the wrong end. The need is not to confirm modern errors but to give nomenclature a solid basis for the long future. Stability must rest on a thorough study of the foundations of biological nomenclature, after which the Commission's authority can be used to confirm the results of such studies.

There is no middle ground between using the oldest eligible names in any given group and using whatever names we please. With the latter

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\*The International Commission of Zoological Nomenclature consists (May 1917) of the following persons:

Carl Apstein, Berlin;	David Starr Jordan, Stanford University;
F. A. Bather, London;	J. H. Kolbe, Berlin;
Joel A. Allen, New York;	F. S. Monticelli, Naples;
Raphael Blanchard, Paris, (President);	Dr. Roule, Paris;
Ph. Dautzenberg, Paris;	S. Simon, Paris;
Ernst Hartert, Tring, England;	Henry Skinner, Philadelphia;
Dr. Horvath, Budapest;	Leonhard Stejneger, Washington;
W. Evans Hoyle, Cardiff;	Charles Wardell Stiles, Washington,
Dr. Handlirsch, Vienna;	(Secretary).
Karl Jordan, Tring;	

alternative, Systematic Zoology and Botany would come to a condition of hopeless despair. There can be no finality when the question of acceptance or rejection of names is left as a matter of personal preference.

Binomial nomenclature has its recognized beginning with the Tenth Edition of the *Systema Naturæ* of Linnæus, published in 1758 with the assumed date of January 1. These names of Linnæus constitute the original framework of Zoological Taxonomy. In the nomenclature of this early period, there are two main elements of doubt: the first relates to the eligibility of authors who have for one reason or another not accepted the Linnæan Code; next of authors whose works, published before the Linnæan Code, have been revised more or less and reprinted after the date of the Tenth Edition of the *Systema Naturæ*. In all of these the species are designated by a descriptive phrase, as was the custom before Linnæus began the practice of "scientific bookkeeping" in Systematic Zoology. The writings of Gronow, Schæfer, and Valmont de Bomare come under the first of these heads; those of Klein (*Gesellschaft Schaulplatz*), Browne, Catesby, and Osbeck, under the other. Commerson and Plumier, whose manuscript names were published by an author who did not accept them, come under a third head. It is the judgment of the present writer, that the best interests of Ichthyology would have been served by adopting the rule followed by Jordan & Evermann (*Fishes of North and Middle America*, 1898). In this work all writers who use polynomial phrases for the designation of species are disregarded as factors in nomenclature, however regular their practice may be as to genera. It is not a question of justice to able naturalists who, like Gronow and Browne, failed to adopt the Linnæan Code, solely because they had never heard of it. It is the convenience of future naturalists which is now concerned. This would apparently be best served by the exclusion of all these.

The arguments against such exclusion are mainly two: Brisson in 1760, polynomial as to species, had a stronger grasp on the significance of genera than any other ornithologist of his time. He has been called "the Father of Ornithology." Most students of birds wish to retain Brisson's genera as foundation-stones in nomenclature. There are good reasons for accepting Brisson as an exception. Similar exceptions may be demanded in other groups. It is desirable, but not vitally necessary, that all accepted rules be general, without exception; but as a member of the International Commission of Nomenclature, the present senior author has made no objection to the recognition of Brisson. The other argument is this: these writers have published generic names which



appear in systematic lists, like that of Sherborne (*Index Animalium*). The Commission has already approved the names of Gronow and Commerson. If the present Commission should decide to reject the whole series of "irregulars," some future Commission may reverse the decision, placing the element of priority above that of regularity. This possibility we cannot forestall, while if once accepted there would be no successful movement for their rejection. Previous decisions of the Commission, as to Gronow and Commerson, point in the direction of general acceptance.

It is especially important to have the status of questioned authors determined as soon as may be, not only for the convenience of ichthyologists but for workers in other fields which may be affected by questions of preoccupation.

More important than the question of acceptance or rejection of some or all of the questioned genera, is the securing of a final decision. This the Commission will be asked to make as soon as practicable. Pending this decision it is perhaps wise for systematic workers to refrain from acceptance of the names questioned.

The other problem is the assignment of generic types to the genera of authors who had no conception of types. In doing this we have followed as closely as may be the rules adopted by the Congress of Zoology, having especial regard to the "first reviser." In some cases we have been in doubt on account of conflicting usages or even rules. But in such cases the weight of authority of the Commission when exercised should serve to turn the scale. With the authors subsequent to Cuvier, 1829, this matter rarely offers any embarrassment. The later authors mostly look upon a genus, not as a pigeon-hole with arbitrary boundaries, but rather as a group of species, with certain definite structural marks clustered around some definite species, the type of the genus.

*The writer asks from his colleagues the fullest criticism both as to matters of fact and of opinion,* before placing the contents of this paper formally before the International Commission. We would especially request information concerning omissions. There are no doubt numerous generic names overlooked in dictionaries and in obscure publications.

We have arranged in chronological order the generic names of fishes published in the first seventy-five years of the history of ichthyological taxonomy. The determination of the validity of genera is treated only incidentally. Our main problem is the fixation of the type.



## The Genera of Fishes from Linnæus to Cuvier 1758 to 1833

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I. LINNÆUS, *Systema Naturæ*, Ed. X, Vol. I, 1758.

KARL LINNÉ (CAROLUS LINNÆUS).

The generic names of Linnæus represent, with one change and two or three additions, the system of Ichthyology as developed in 1738 by his friend and fellow-student, Peter Artedi, a naturalist whose knowledge of fishes was far greater than that of Linnæus. The types of most of the Linnæan genera have been accepted by common consent. As a rule we have not questioned the current application unless compelled to do so by the insistence of established rules.

**Petromyzon** Linnæus, 230, after Artedi; type PETROMYZON MARINUS L.  
Unquestioned.

**Raja** Linnæus, 231, after Artedi; type RAJA BATIS L.  
Spelled also RAIA, by authors.

**Squalus** Linnæus, 231, after Artedi; type SQUALUS ACANTHIAS L.  
Restriction to S. ACANTHIAS and relatives, Rafinesque, *Indice d'Ichtiologia Siciliana*, 1810, 45, and by Gill, *Proc. Acad. Nat. Sci. Phila.*, 1862, 497. Gray, *Cat. Chond.*, 1851, following Bonaparte, 1838, uses the name SQUALUS for the allies of CARCHARHINUS COMMERSIONIANUS. But this use of the name is no more a specification of a type than is that of Rafinesque, and the more formal choice of type by Gill reinforces the former. Swainson, 1838, chooses CARCHARODON CARCHARIAS L.

**Chimæra** Linnæus, 236; type CHIMÆRA MONSTROSA L.  
Unquestioned.

**Lophius** Linnæus, 236, after Artedi; type LOPHIUS PISCATORIUS L.  
Unquestioned.

**Acipenser** Linnæus, 237, after Artedi; type ACIPENSER STURIO L.  
Unquestioned.

**Muræna** Linnæus, 244, after Artedi; type MURÆNA HELENA L.  
Unquestioned, except by Bleeker, who takes as type MURÆNA ANGUILLA L., the first species named by Artedi.

# LEONHARD RABALL VITAE

12

## THE GENERA OF FISHES

**Gymnotus** Linnæus, 246, after Artedi; type GYMNOTUS CARAPO L.

Unquestioned, except by certain authors who take as type GYMNOTUS ELECTRICUS L. which appears first in the Twelfth Edition of the *Systema Naturæ*.

**Trichiurus** Linnæus, 246, after LEPTURUS Artedi; type TRICHIURUS LEPTURUS L.

Monotypic.

**Anarhichas** Linnæus, 247, after Artedi; type ANARHICHAS LUPUS L.

Monotypic. Usually and more correctly spelled ANARRHICHAS.

**Ammodytes** Linnæus, 247, after Artedi; type AMMODYTES TOBIANUS L.

Monotypic.

**Stromateus** Linnæus, 248, after Artedi; type STROMATEUS FIATOLA L.

Unquestioned.

**Xiphias** Linnæus, 248, after Artedi; type XIPHIAS GLADIUS L.

Monotypic.

**Callionymus** Linnæus, 249, after Artedi; type CALLIONYMUS LYRA L.

Unquestioned.

**Uranoscopus** Linnæus, 250, after Artedi; type URANOSCOPIUS SCABER L.

Monotypic.

**Trachinus** Linnæus, 250, after Artedi; type TRACHINUS DRACO L.

Monotypic.

**Gadus** Linnæus, 251, after Artedi; type GADUS MORHUA L.

By common consent.

**Blennius** Linnæus, 256, after Artedi; type BLENNIUS OCELLARIS L. as restricted by Jordan & Gilbert, 1883.

**Ophidion** Linnæus, 259, after Artedi; type OPHIDION BARBATUM L.

Unquestioned.

**Cyclopterus** Linnæus, 260, after Artedi; type CYCLOPTERUS LUMPUS L.

Unquestioned.

**Echeneis** Linnæus, 260, after Artedi; type ECHENEIS NAUCRATES L. (misprinted NEUCRATES).

First restriction by Gill, *Proc. Acad. Nat. Sci. Phila.*, 1862, 239. In 1864, *loc. cit.* 60, Gill proposed to adopt as type ECHENEIS REMORA, this being the only species noted by Artedi, and in Linnæus's earlier writings. But as Linnæus referred both species to ECHENEIS, this change seems not warranted.

**Coryphæna** Linnæus, 261, after Artedi; type CORYPHÆNA HIPPIURUS L.

Unquestioned.

**Gobius** Linnæus, 263, after Artedi; type GOBIUS NIGER L.

By common consent.

**Cottus** Linnæus, 264, after Artedi; type COTTUS GOBIO L.

First restriction by Cuvier & Valenciennes, *Hist. Nat. Poiss.*, IV, 1829, 142. "Ce genre avait pour type primitive, un petit acanthopterygien de nos rivières, à

tête large," etc. Later restricted to *COTTUS SCORPIUS* L. (*MYOXOCEPHALUS* Steller = *ACANTHOCOTTUS* Girard), by Putnam, *Bull. Mus. Comp. Zool.*, I, No. I, 3, 1863.

**Scorpæna** Linnæus, 266, after Artedi; type *SCORPÆNA PORCUS* L.

Unquestioned.

**Zeus** Linnæus, 267, after Artedi; type *ZEUS FABER* L.

Unquestioned.

**Pleuronectes** Linnæus, 268, after Artedi; type *PLEURONECTES PLATESSA* L.

First restriction by Fleming, *Philos. Zool.*, 1822. Some writers have taken *PLEURONECTES MAXIMUS* L. as type, following a quasi-designation by Fleming in 1828.

**Chætodon** Linnæus, 272, after Artedi; type *CHÆTODON CAPISTRATUS* L.

First restriction by Cuvier, *Règne Animal*, 1817, 33, and by Jordan & Gilbert, *Synopsis Fish N. A.*, 1883. All authors, except Bleeker, have used the name for the same group. Artedi places first in his list under *CHÆTODON* the species called *CHÆTODON ARCUATUS*, a *POMACANTHUS*. Bleeker takes this species as type, replacing *POMACANTHUS* with *CHÆTODON*, and *CHÆTODON* by *TETRAGONOPTRUS*.

**Sparus** Linnæus, 277, after Artedi; type *SPARUS AURATA* L.

First restriction by Fleming, *Philos. Zool.*, 1822. This decision has been generally, but not universally accepted.

**Labrus** Linnæus, 282, after Artedi; type *LABRUS BIMACULATUS* L., the earliest type designated by Bonaparte (1839), under the name of *L. VETULUS* Bloch.

By common consent restricted to *LABRUS VIRIDIS* and closely allied forms.

**Sciæna** Linnæus, 288; type *SCIÆNA UMBRA* L.

Complex species, to be considered as identical with *CHEILODIPTERUS AQUILA* Lacepède. First exact restriction by Cuvier, 1815. *SCIÆNA UMBRA*, based on Artedi, is a mixture of two species, *SCIÆNA AQUILA* (Lac.) and *CORVINA NIGRA* (Bloch). It is the proper type of the genus *SCIÆNA*, but its component parts are not congeneric. The two species were confused until Cuvier (*Mém. du Museum*, 1815, and later in the *Règne Animal*, Edition II, 1829, made clear the difference and definitely chose *AQUILA* as the type of *SCIÆNA*. Jordan & Evermann have adopted *CORVINA NIGRA*, under the name of *SCIÆNA UMBRA*, as type of *SCIÆNA*. An argument can be made for either arrangement, but convenience is best served and probably justice also by accepting the name *UMBRA* for the species called *AQUILA* and recognizing this as type of *SCIÆNA*. The two species concerned should then stand as *SCIÆNA UMBRA* L. and *CORVINA NIGRA* (Bloch). Bleeker has chosen as type *SCIÆNA CIRROSA*, the species placed first by Artedi, the type of *UMBRINA* Cuvier.

**Perca** Linnæus, 289, after Artedi; type *PERCA FLUVIATILIS* L.

By common consent.

**Gasterosteus** Linnæus, 295, after Artedi; type *GASTEROSTEUS ACULEATUS* L.

By common consent.

**Scomber** Linnæus, 297, after Artedi; type **SCOMBER SCOMBRUS** L.  
By common consent.

**Mullus** Linnæus, 299; type **MULLUS BARBATUS** L.  
By common consent.

**Trigla** Linnæus, 300, after Artedi; type **TRIGLA LYRA** L.  
By common consent.

**Cobitis** Linnæus, 300, after Artedi; type **COBITIS TÆNIA** L.  
By common consent.

**Silurus** Linnæus, 304, after Artedi; type **SILURUS GLANIS** L.  
By common consent.

**Loricaria** Linnæus, 307, type **LORICARIA CATAPHRACTA** L.  
Monotypic.

**Salmo** Linnæus, 308, after Artedi; type **SALMO SALAR** L.  
By common consent.

**Trutta** Linnæus, as "TRUTTÆ," 308; type **SALMO TRUTTA** L.  
Type by tautonomy.

**Osmerus** Linnæus, as "OSMERI," 310, after Artedi; type **SALMO EPERLANUS** L.  
By common consent.

**Coregonus** Linnæus, as "COREGONI," 310, after Artedi; type **SALMO LAVARETUS** L.  
By common consent.

**Characinus** Linnæus, as "CHARACINI," 311, after Gronow; type **SALMO GIBBOSUS** L.

First restriction by Gill, *Proc. U. S. Nat. Mus.*, 1895, 215. Replaces **CHARAX** Gronow, **EPICYRTUS** Müller & Troschel, **ANACYRTUS** Günther. Its use hinges on its eligibility, as Linnæus used only the plural form **CHARACINI** as a section **SALMO**. If not accepted, **CHARAX** Gronow (1763), Scopoli (1777), would replace it, with the same type. The same slight doubt applies to **TRUTTA**, **OSMERUS** and **COREGONUS**, all used in the plural form only by Linnæus. In our judgment all are eligible.

**Fistularia** Linnæus, 312; type **FISTULARIA TABACARIA** L.  
Monotypic.

**Esox** Linnæus, 313; type **ESOX LUCIUS** L.

This type was indicated, somewhat arbitrarily, in Opinion 58 of the International Commission, accepting the view of Cuvier, and current usage both before and after Linnæus. Klein chose the name **LUCIUS** for the Pike, this name being adopted in the *Gesellschaft Schauplats*. Rafinesque first separated the marine garfishes from the pike, calling the former **Esox**, the latter **LUCIUS**. But neither ever stated formally that **ESOX BELONE** L. was the type of **ESOX**. In view of the arguments available on either side, we may "let sleeping dogs lie," and follow common custom, strengthened by the authority of the Commission.



**Argentina** Linnæus, 315, after Gronow, (*Museum Ichthyologicum*, a pre-Linnæan work); type ARGENTINA SPHYRÆNA L.

Monotypic.

**Atherina** Linnæus, 315, after Artedi; type ATHERINA HEPSETUS L.

Monotypic.

**Mugil** Linnæus, 316, after Artedi; type MUGIL CEPHALUS L.

Monotypic.

**Exocoetus** Linnæus, 316; type EXOCÆTUS VOLITANS L. = E. EVOLANS L. (= HALOCYPSELUS Weinland).

Monotypic.

**Polynemus** Linnæus, 317, after Gronow and Artedi; type POLYNEMUS PARADISEUS L.

The first real restriction seems to be that of Günther, *Cat. Fishes*, II, 1860, 319. No type is specified, but the non-congeneric species, P. QUINQUARIUS L., is removed to form the genus PENTANEMUS, a name originally employed by Artedi, but changed to POLYNEMUS by Gronow. As this species, QUINQUARIUS, was the only one known to Artedi or to Gronow, Dr. Gill, with numerous writers, ourselves included, has regarded it as the type of POLYNEMUS. But common usage with the formal selection of P. PARADISEUS L. as type by Jordan & Gilbert, *Synopsis Fishes*, 1883, should prevail.

**Clupea** Linnæus, 317, after Artedi; type CLUPEA HARENGUS L.

Unquestioned.

**Cyprinus** Linnæus, 320, after Artedi; type CYPRINUS CARPIO L.

Unquestioned.

**Mormyrus** Linnæus, 327; type MORMYRUS CYPRINOIDES L.

Unquestioned.

**Balistes** Linnæus, 327, after Artedi; type BALISTES VETULA L.

Unquestioned.

**Ostracion** Linnæus, 330; type OSTRACION CUBICUS L.

As restricted by Swainson 1839, by Bleeker 1865, and in recent usage.

Unquestioned, except by Kaup, who takes as type O. TRIQUETER L., a species referred to LACTOPHRYS Swainson. O. CUBICUS L. is type of CIBOTION Kaup.

**Tetraodon** Linnæus, 332, after Artedi; type TETRAODON TESTUDINEUS L.

This genus has been variously treated by authors, but justice and convenience are best served by the choice of T. TESTUDINEUS as type. Bleeker, *Atlas Ichth.*, 1865, appears to be the first reviser. He observes: "C'est une de ces espèces qui est devenue le type du genre Linnéen . . . en effet le TETRAODON TESTUDINEUS, qui est la première des espèces de TETRAODON de la Dixième Edition du *Systema Naturæ*." Several writers have since indicated as type T. LINEATUS L. a species of OVOIDES.

**Diodon** Linnæus, 334, after Artedi; type DIODON HYSTRIX L.

Unquestioned, except by Bleeker, who takes the first species named, DIODON ATINGA L.

**Centriscus** Linnæus, 336, after Gronow; type **CENTRISCUS SCUTATUS** L.

Monotypic, a fact overlooked by various authors who choose **CENTRISCUS SCOLOPAX** L., 1766.

**Syngnathus** Linnæus, 336, after Artedi; type **SYNGNATHUS ACUS** L.

By common usage. The earliest restriction as approved by the International Commission is that of Jordan, Opinion, 45, 103, 1912.

**Pegasus** Linnæus, 358, after Gronow; type **PEGASUS VOLITANS** L.

Monotypic.

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II. **GUNNER**, *Nachricht von Berglachs, welche CORYPHÆNOIDES RUPESTRIS genannt werden kann*: Throndhjemske Selskab, Skrifter III, 1761.

JOHAN ERNST GUNNER.

**Coryphænoides** Gunner, 43, 50; type **CORYPHÆNOIDES RUPESTRIS** Gunner.

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III. **SCHÆFER**, *Piscium Bavarico Ratisbonensium*, 1761.

JACOB CHRISTIAN SCHÆFER.

The descriptions in this paper are exact and very elaborate ("in universum describiendis"). The nomenclature is eccentric—in part mononomial, and the names are perhaps not exactly used in the sense of genera. The perch is called **PERCA VULGARIS** and again **PERCA FLUVIATILIS**.

*Names perhaps not eligible as mononomial:*

**Cernua** Schæfer, 37; type **CERNUA SEU PERCA FLUVIATILIS MINOR** Schæfer = **PERCA CERNUA** L.

Equivalent, if accepted, to **GYMNOCEPHALUS** Bloch, **ACERINA** Gùldenstadt, **CERNUA** Fleming.

**Schraitzer** Schæfer, 38; type **SCHRAITZER Ratisbonensium** = **PERCA SCHRÆTZER** L.

Equivalent to **LEPTOPERCA** Gill.

**Asperulus** Schæfer 59; type **ZINDEL Ratisbonensis** Schæfer = **PERCA ZINGEL** L.

Equivalent to **ZINGEL** Oken.

**Asper** Schæfer 59; type **ASPER VERUS** Schæfer, "Streber ratisbonensis" = **PERCA ASPER** L.

Equivalent to **ASPRO** Cuvier, not of Commerson.

IV. OSBECK, *Reise durch China*, 1762.

PER OSBECK.

Osbeck, a pupil of Linnæus, published in 1757 the record of his travels in China. This work is wholly binomial, but being earlier than 1758, the Latin edition, "*Iter Chinensis*," 1757, cannot be used in nomenclature. The German edition, *Reise durch China*, bears the date of 1762, and is here considered. A Swedish version dates from 1765, an English edition from 1771. The case is exactly parallel with that of Hasselquist's "*Iter Palestinum*," published in 1757, and reprinted in German in 1762. Hasselquist, like Osbeck, was a pupil of Linnæus, and adopted the Linnæan Code. In Opinion 57, the Commission of Nomenclature rejected Hasselquist's work and its translation. "The German translation by Gadebusch, published in 1762, does not give validity to the names published in the original edition in 1757." The present writers question the wisdom of this decision.

*The names of Osbeck are questioned as translations of work prior to 1758.*

**Apocryptes** Osbeck, 130, 1762; type APOCRYPTES CHINENSIS Osbeck, GOBIUS PECTINIROSTRIS Gmelin.

APOCRYPTES is close to BOLEOPHTHALMUS but distinct. APOCRYPTES Cuvier is a different genus.

**Albula** Osbeck, 309, 1762; type ALBULA CHINENSIS Osbeck.

Same as SALANX Cuvier, not ALBULA Gronow 1763. If accepted, the genus commonly called ALBULA must receive a new name, BUTYRINUS Lacepède.

V. GRONOW, *Zoophylaceum*; ZOOPHYLACII Gronoviana . . . *Animalia quæ in museo suo adservat, etc.*, 1763.

LORENZ THEODOR GRONOW (LAURENTIUS THEODORUS GRONOVIVS).

In this work of Gronow, printed in 1763, before its author had become acquainted with the *Systema Naturæ*, the genera of fishes are well defined, in a system which runs closely parallel with the system of Artedi (1738), but the species, as with Artedi, have polynomial designations only. In addition to the genera earlier named by Artedi and Linnæus, Gronow has a number of new names. Two of these, AMIA and HEPATUS, conflict with Linnæan genera of 1766. The completed manu-

script work of Gronow, written in 1780, called *Systema Ichthyologicum*, in which binomial names were attached to species, after the Linnæan fashion, became the property of the British Museum, by which institution it was published in 1854. This work, as edited by John Edward Gray, does great credit to the scientific discrimination of Gronow; but at that late date, exactly a hundred years after Gronow's first paper, "*Museum Ichthyologicum*," nearly all of his new names became synonyms.

Fortunately for the interests of nomenclature, most of Gronow's names were adopted in 1777 by Scopoli, *Introd. Hist. Nat.* Several other names have been used by subsequent authors, as Gmelin, Bloch and Cuvier; so that the adoption of the names of Gronow works less confusion in the system than might be expected. The suppression of AMIA, LIPARIS, ZOARCES, CONGER, and SCARUS, with the transposition of AMIA, are the results most to be regretted. As the few new names of Gronow have lain unnoticed for a century and a half, it seems a pity to revive them. The present writer believes, as already stated, that it would be a wise rule to exclude from the system all post-Linnæan writers who failed to adopt the binary designation of species. As however Brisson, 1760, "the Father of Ornithology," was a writer of this type, it may be possible to make an exception in his case, preserving his genera of Birds. But Ichthyology gains little to atone for the confusion resulting from the introduction at this late day of the names of Gronow, Klein and other polynomial writers not hitherto absorbed into the system. The generic names of Gronow have been, however, formally accepted by the International Commission of Zoological Nomenclature (Opinion 20, Smithsonian Miscellaneous Contributions, No. 1938): "Gronow, 1763, is binary, though not consistently binomial. Article 25 demands that an author be binary and Article 2 demands that generic names shall be uninomial. Under these articles, Gronow's names are to be accepted as complying with the conditions prescribed by the Code to render a name available under the Code."

*The eligibility of the generic names of Gronow is questioned as not conforming to the Linnæan code in the terminology of species.*

**Callorhynchus** Gronow, 31; type CHIMÆRA CALLORHYNCHUS L. (CALLORHYNCHUS PINNA DORSI etc. Gronow).

Unquestioned: accepted by later writers.

**Cyclogaster** Gronow, 55; type CYCLOPTERUS LIPARIS L. (CYCLOGASTER BELGIS KRINGBURGK (Gronow)).

The name LIPARIS used for this genus by Artedi in 1738 was changed to Cy-

**CLOGASTER** by Gronow. **LIPARIS** was restored by Scopoli in 1777, and has been used by nearly all subsequent authors.

**Gonorhynchus** Gronow, 56; type **CYPRINUS GONORHYNCHUS** Gmelin.

Monotypic. The name was adopted by Schlegel, 1846, replacing **RHYNCHÆUS** Richardson. Also by Scopoli, 1777.

**Uranoscopus** Gronow, 57; type **COTTUS GOBIO** L.

Synonym of **COTTUS** L.

**Cynædus** Gronow, 60; type **SPARUS AURATA** L. (**CYNÆDUS CAUDA LUNULATA** etc. Gronow).

This genus is an assemblage of Sparoid fishes, essentially equivalent to **SPARUS** of Linnaeus, and includes species of several modern genera. Jordan (Smithson. Publ. No. 1938: *Opinions on zoological nomenclature*) has proposed to treat **CYNÆDUS** as a synonym of **SPARUS**, having **SPARUS AURATA** as type.

**Holocentrus** Gronow, 65; type **HOLOCENTRUS SOGO** Bloch (**HOLOCENTRUS MAXILLA SUPERIORE LONGIORE** Gronow).

This name, taken from Artedi, was revived by Scopoli, 1777, and by Bloch, 1790, who changed the spelling to **HOLOCENTRUM**, the form used by Artedi. This neuter form has been used by most authors from Cuvier to Günther.

**Coracinus** Gronow, 66; type **DIPTERODON CAPENSIS** Cuv. & Val. (**CORACINUS CAUDA-LUNATA** Gronow).

Not **DIPTERODON** Lacepède. If accepted, replaces **DICHISTIUS** Gill.

**Scarus** Gronow, 67; type **LABRUS VIRIDIS** L. (**SCARUS VIRIDIS** Gronow).

This genus of Gronow unfortunately contains no species of the group later called **SCARUS**, the two other species enumerated being **CICHLIDS** from Surinam.

**Calliodon** Gronow, 72; type **SCARUS CROICENSIS** Bloch (**CALLIODON CAPITATE SUBACUTO** Gronow).

**CALLIODON**, if eligible, must replace **SCARUS** Forskål, 1775, as the name of this large and wide-spread genus. The name **SCARUS** of Gronow, applied to a species of **LABRUS**, antedates its use for a parrot-fish. The genus called **CALLIODON** by Cuvier (**C. SPINIDENS**), is distinct from **CALLIODON** of Gronow (**CALLIODON** of Bloch & Schneider), and must stand as **CRYPTOTOMUS** Cope. Revived by Scopoli, 1777.

**Enchelyopus** Gronow, 77, after Klein; type **BLENNIUS VIVIPARUS** L. (**ENCHELIOPODUS CORPORE LITURIS** etc. Gronow).

This genus as proposed by Klein in 1744 contained a variety of fishes, eel-shaped but with ventral fins. As used by Gronow it is practically equivalent to **ZOARCES** Cuvier, and to this type it was restricted by Gill, 1863. **ENCHELIOPODUS** Bloch & Schneider (type **GADUS CIMBRIUS** L., a species unknown to Gronow), should stand as **RHINONEMUS** Gill. **ENCHELIOPODUS** Gronow must unfortunately supersede **ZOARCES** Cuvier.

**Pholis** Gronow, 78; type **BLENNIUS GUNNELLUS** L. (**PHOLIS MACULIS ANNULATUS** etc. Gronow).

Revived by Scopoli, 1777. Replaces **MURÆNOIDES** Lacepède and **GUNNELLUS** Cuvier, (not **PHOLIS** Cuv. & Val.). Monotypic.

**Amia** Gronow, 80; type *APOGON MOLUCCENSIS* Cuv. & Val. (*AMIA CAPUT CATHEOPLATEUM* Gronow).

Equivalent to *APOGON* Lacepède, 1802.

**Eleotris** Gronow, 83; type *GOBIOUS PISONIS* Gmelin = *ELEOTRIS GYRINUS* Cuvier & Valenciennes (*ELEOTRIS CAPITIS PLAGEOPLATEO* etc. Gronow).

The name *ELEOTRIS* was used for the same group by Bloch & Schneider in 1801, and by all later authors.

**Clarias** Gronow, 100; type *CLARIAS ORONTIS* Günther (*CLARIAS* Gronow).

Accepted by Scopoli, 1777, and by other writers. Monotypic.

**Albula** Gronow, 102; type *ESOX VULPES* L. = *ALBULA CONORHYNCHUS* Bloch & Schneider.

Revived by Bloch & Schneider, 1801. Antedated by *ALBULA* Osbeck. Equivalent to *BUTYRINUS* Lacepède. Also used by Scopoli, 1777.

**Aspredo** Gronow, 102, after Linnæus, 1754; type *SILURUS ASPREDO* L. (*ASPREDO CIRRISSIMO* Gronow).

**Anableps** Gronow; type *COBITIS ANABLEPS* L.

**Anostomus** Gronow, 112; type *SALMO ANOSTOMUS* L. (*ANOSTOMUS* Gronow).

Adopted by Müller & Troschel, 1845. Equivalent to *SCHIZODON* Agassiz, 1829. Monotypic. Revived by Scopoli, 1777.

**Synodus** Gronow, 112; type *SALMO SYNODUS* L.

This genus, equivalent to *SAURUS* Cuvier, was revived by Scopoli, 1777. Monotypic.

**Hepatus** Gronow, 113; type *TEUTHIS HEPATUS* L. = *CHÆTODON CHIRURGUS* Bloch, not *ACANTHURUS HEPATUS* Cuv. & Val. (*HEPATUS MUCRONE REFLEXO* Gronow).

*HEPATUS* Gronow is based on two species, on which two Linnæus based his genus *TEUTHIS*. The latter is a substitute for the former, and the two were accepted as identical by Scopoli. Of the two species mentioned by Gronow, *HEPATUS* L. and *JAVUS* L., Gronow had, according to Dr. Günther, a specimen of the first. This we may take as type of both *HEPATUS* and *TEUTHIS HEPATUS*. This example belonged to the species called later *CHÆTODON CHIRURGUS* by Bloch. This species must be regarded as the type of the genus *HEPATUS*. Cuvier & Valenciennes have used the name *HEPATUS* L. for an East Indian species, *COLOCOPUS LAMBDURUS* Gill. They were mistaken in supposing that this species was the one examined by Gronow. The restriction here made is that of the first reviser, Jordan, Tanaka & Snyder, *Cat. Fish Japan*, 1913, 214. If accepted, *HEPATUS* replaces *TEUTHIS* and *ACANTHURUS*.

**Umbra** (Krämer) Gronow, 114; type *CYPRINODON KRÄMERI* Walbaum. (*UMBRA KRAMERI* Gronow).

Revived by Scopoli, 1777, and Müller, 1842, as *UMBRA KRAMERI* Müller.



**Erythrinus** Gronow, 114; type *SALMO ERYTHRINUS* Bloch & Schneider, 1801 (= *ERYTHRINUS* Gronow).

The name was revived by Müller & Troschel, 1846, and is in general use. Monotypic. Used also by Scopoli, 1777.

**Cataphractus** Gronow, 115; type *PEGASUS DRACONIS* L. (*CATAPHRACTUS CORPORE TETRAGONE* Gronow).

This genus is a synonym of *PEGASUS* L.

**Solenostomus** Gronow, 119; type *FISTULARIA TABACARIA* L. (*SOLENOTOMUS CAUDA BIFURCA* etc. Gronow).

*SOLENOTOMUS* is equivalent to *FISTULARIA*. The genus *SOLENOTOMUS* Lacepède, 1803, typified by *FISTULARIA PARADOXA* Pallas, must receive a new name, if the names of Gronow are accepted.

**Charax** Gronow, 123; type *SALMO GIBBOSUS* L. (*CHARAX MAXILLA INFERIORE* etc. Gronow).

This name is equivalent to *CHARACINI* L. = *EPICYRTUS* Müller & Troschel, 1846, said to be preoccupied, and *ANACYRTUS* Günther, 1864, presented as a substitute for *EPICYRTUS*, all with the same type. *CHARAX* Risso (*C. PUNTAZZO*) belongs to the very different family *SPARIDÆ*. Revived by Scopoli, 1777.

**Mystus** Gronow, 124; type *BAGRUS HALEPENSIS* Cuv. & Val. (*MYSTUS CIRRI OCTO CAPITIS LONGIORIBUS* Gronow).

The genus *MYSTUS* as defined by Gronow contains five species, not congeneric. The name is taken from Russell's *History of Aleppo*, who describes the species called *BAGRUS* or *HYPSELOBAGRUS HALEPENSIS* as *MYSTUS*. Of the generic names included, that of *HYPSELOBAGRUS* Günther, 1864, is the most recent. The species named "*MYSTUS*" by Russell may be taken as the type of "*MYSTUS*" which will, if accepted, supersede *HYPSELOBAGRUS*. *MYSTUS* Lacepède, 1805, (*MYSTUS CLUPEOIDES* Lacepède) is a species of *COILIA* Gray, 1831, an Engraulid fish. Also Scopoli.

**Plecostomus** Gronow, 127, after Artedi; type *LORICARIA PLECOSTOMUS* L. (*PLECOSTOMUS DORSO DIPTERYGIO* Gronow).

If accepted, replaces *HYPOSTOMUS* Lacepède; it is now in general use.

**Callichthys** Gronow, 127; type *SILURUS CALLICHTHYS* L. (*CALLICHTHYS CIRRI* Gronow).

Unquestioned, being accepted by later writers.

**Mastacembelus** Gronow, 132; type *OPHIDIUM SIMACK* Walbaum, 1792 = *RHYNCHODELLA HALEPPENSIS* Bloch & Schneider, 1801 (*MASTACEMBELUS MAXILLIS SUBACUTIS* Gronow).

Revived by Cuvier & Valenciennes. The generic name *RHYNCHODELLA* Bloch & Schneider included both species assigned by Gronow to *MASTACEMBELUS*. In dividing the group, Cuvier & Valenciennes assigned the former name to *OPHIDIUM ACULEATUM* Bloch, Gronow's second species, leaving *MASTACEMBELUS* for his first. Before Gronow, Klein, 1744, had used the name *MASTACEMBELUS* for an entirely different group. In this he had been followed by Bleeker, who recognized, at first, generic names of earlier date than 1758.

**Channa** Gronow, 135; type **CHANNA ORIENTALIS** Bloch & Schneider, 1801 (**CHANNA** Gronow).

This monotypic genus was accepted by Bloch & Schneider, 1801, and Scopoli.

**Gasteropelecus** Gronow, 135; type **CLUPEA STERNICLA** L. (**GASTROPELECUS** Gronow).

Monotypic. The name was revived by Pallas in 1769.

**Leptocephalus** Gronow, 135; type **LEPTOCEPHALUS MORRISI** Gmelin, the larva of **MURÆNA CONGER** L. (**LEPTOCEPHALUS** Gronow).

This name, based on a larval conger, and revived by Scopoli in 1777, is held to replace **CONGER** Houttuyn, 1764, and of Cuvier, 1817, given to the adult of the same species. As **LEPTOCEPHALUS** has been in use more than a century as the collective name of the peculiar translucent expanded larvæ of the Conger and other eels, it would be well to restrict its use to those forms, reserving the genus to which the type belongs, the earliest name given to the adult fish, **CONGER** Houttuyn.

**Gymnogaster** Gronow, 136; type **TRICHIURUS LEPTURUS** L. (**GYMNOGASTER** Gronow).

Equivalent to **TRICHIURUS** L. Monotypic.

**Pteraclis** Gronow, 136; type **CORYPHÆNA VELIFERA** Pallas, 1770 (**PTERACLIS PINNATA** Gronow) 1777.

The name **PTERACLIS** was used by Gronow, 1772. It is monotypic and unquestioned.

## VI. LINNÆUS, *Museum Adolphi-Frederici*, II, 1764.

CAROLUS LINNÆUS.

**Cepola** Linnæus, 63; type **CEPOLA RUBESCENS** L. = **C. TÆNIA** L. (also in *Syst. Nat.*, 1766.)

## VII. HOUTTUYN, *Natuurlike Historie volgens den Heer Linnæus*, 1764.

MARTIN HOUTTUYN.

This work we have not seen. Mr. Garman (in lit.) quotes:

**Conger** Houttuyn, VII, 103; type **MURÆNA CONGER** L.

This name might well be retained for the Conger eel, leaving **LEPTOCEPHALUS** to its time-honored special use as a designation for the larval forms of Conger and similar eels.

**Torpedo** Houttuyn, VII, 453; type (not named) **RAJA TORPEDO** L.

Apparently this fixes the name **TORPEDO** on the Electric Ray.

VIII. LINNÆUS, *Systema Naturæ*, Ed. XII, 1766.

CAROLUS LINNÆUS.

This edition contains four genera in addition to those given in the Tenth Edition.

**Cepola** Linnæus, 445; type *C. TÆNIA* L. = *C. RUBESCENS* L.

Unquestioned.

**Amia** Linnæus, 500; type *A. CALVA* L.

The generic name *AMIA* appears in the Twelfth Edition of the *Systema Naturæ*, in 1766. It had been used earlier by Gronow, in 1763, for a percoid genus, later called *APOGON* by Lacepède.

In the opinions already rendered by the Commission, it was decided that the generic names in Gronow's *Zoophylaceum*, published in 1763, between the tenth and twelfth editions of the *Systema Naturæ*, should be adopted, although his names for species were polynomial. Gronow was an excellent ichthyologist, with broader knowledge than Linnæus, and later adopted the Linnæan nomenclature. In view of the fact that his names are not in current usage, and that he had not then accepted binomial nomenclature, most recent authors have rejected them, unless revived by some binomial writer. The transfer of *AMIA* from the ganoid to a percoid genus is, however, peculiarly undesirable, and it may be urged that general convenience justifies a special exception in this case. If *AMIA* be used for *APOGON*, *AMIA* L. is replaced by *AMIATUS* Rafinesque, 1815.

**Teuthis**, 507, after Browne; type *CHÆTODON CÆRULEUS* Bloch = *TEUTHIS HEPATUS* L. in part.

The name *TEUTHIS* was applied by Linnæus in the twelfth edition of the *Systema Naturæ*, to the two species which formed the genus *HEPATUS* of Gronow, in 1765. These were named *TEUTHIS HEPATUS* and *TEUTHIS JAVUS*. The name *TEUTHIS* was borrowed from Browne, a non-binomial author. The two Linnæan species belong to different families. The species first named *HEPATUS* may be regarded as the type of *HEPATUS*, as already indicated. The name *TEUTHIS* should properly go with *T. HEPATUS*, as the name is borrowed from Browne, who applied it to a single species, confused with *TEUTHIS HEPATUS* by Gronow and Linnæus, the *CHÆTODON CÆRULEUS* of Bloch. This species is a near relative of the type of *HEPATUS*. This decision follows the arguments of Dr. Gill. It is reasonable, but not above question. Meanwhile several authors, notably Cantor and Günther, use *TEUTHIS* for *T. JAVUS* (*SIGANUS* Forskål), while others suppress it altogether. Still others misspell it, as *THEUTYS*, *THEUTIS*, etc.

**Elops** Linnæus, 508; type *ELOPS SAURUS* L.

Monotypic.

IX. MÜLLER, *Delineationes Naturæ*, II, 1767, 141 (fide Sherborne, *Index Animalium*).

PHILIP LUDWIG STATIUS MÜLLER.

Not seen by us.

**Acus** Müller, 141; type probably SYNGNATHUS ACUS L.

Equivalent to SYNGNATHUS L.

**Orbis** Müller, 141; type probably DIODON HYSTRIX L.

Equivalent to DIODON L.

We copy these references from Sherborne. In a memoir by Professor Müller, 1774, vol. III, p. 341, ACUS appears as a specific name under SYNGNATHUS ACUS, and again, 1774, IV, 341, as a vernacular under ESOX BELONE. Under DIODON HYSTRIX (III, 327) he quotes "ORBIS MAXIMUS SPINOSUS." Mr. Garman, who gives us these references, remarks: "I would say that neither of these is available as a generic name." Neither is used in Müller's supplement to the *Systema Naturæ*, 1776.

X. GEOFFROY, *Descriptions de 719 Plantes* etc., 1767.

ÉTIENNE LOUIS GEOFFROY.

This paper we have not seen. We copy from Sherborne.

**Ichthyocolla** Geoffroy, 399; type presumably ACIPENSER HUSO L.

The name, meaning fish-glue, was early applied to the fish producing it. Prior to Huso Brandt, as a name for a subgenus of sturgeons.

**Harengus** Geoffroy, 405; type presumably CLUPEA HARENGUS L., in which case it is a synonym of CLUPEA.

**Lucius** Geoffroy, 407; type presumably ESOX LUCIUS L.

**Trutta** Geoffroy, 719; type presumably SALMO TRUTTA L.

XI. VALMONT DE BOMARE, *Dictionnaire Raisonné Universel d'Histoire Naturelle*, 1764, 1768, 1774, 1791.

JEAN CHRISTOPHE VALMONT DE BOMARE.

The eligibility of Valmont's names is questioned as binomial only by accident, and not accepted as genera by the author himself in 1791.

Of this work we have examined four editions, the first bearing date of 1764; the "new edition," considerably enlarged, of 1768; the second

edition, apparently mostly identical with the "new edition," 1775; and the fourth, still larger, in 1791.

The dictionary received no consideration in ichthyological nomenclature until the appearance of the elaborate treatise on the sharks of the world, "PLAGIOSTOMIA" by Samuel Garman, (*Memoirs of the Museum of Comparative Zoology at Harvard College*, vol. XXXVI, 1913).

In this work Mr. Garman makes brief reference to Valmont de Bomare as a worthy author hitherto ignored in taxonomy. "The selection of one authority because he favored binomials more than another, has led to much uncertainty among names and to many changes. It has led authors to belittle and to ignore excellent works which at their time of publication and much later ranked in accuracy and influence among the first of the scientific publications of this period." Mr. Stejneger informs me that a Danish edition of this Dictionary exists.

An examination of four editions of the *Dictionnaire* of Valmont de Bomare shows it to be a compilation pure and simple, that he did not intend to give any new scientific names to animals or plants, but that, in a few cases, he copied binomial appellations from earlier authors which might be construed as revived in a scientific sense.

It is therefore worth while to examine these cases in detail.

#### FIRST EDITION, 1764.

In the first edition, bearing date of 1764, there is no case of the use of anything resembling scientific nomenclature, although Valmont often gives a Latin equivalent to his French names. It is evident, however, that the work of Artedi, Klein, Gronow, and Linnæus in which genera and species are formally recognized, is unknown to him.

Thus, accompanied by fair descriptions compiled from other authors, he gives the following:

"AIOL, en Latin, SCARUS, un des plus beaux," etc. (vol. I, p. 95).

"ALOSE, ALOSA, poisson de mer qui remonte" (vol. I, p. 105).

"ANCHOIS, en Latin, APUA, petit poisson," etc. (I, 13, 3).

"ANGUILLE, ANGUILLA, poisson allongé," etc. (vol. I, p. 133).

"CONGRE, CONGER, excellent poisson," etc. (vol. II, p. 58).

"DAURADE, AURATA VULGARIS, Espèce de poisson," etc. (vol. II, p. 225).

"ÉPINOCHÉ, PISCIS ACULEATUS (vol. II, p. 306).

"GLAUCUS, bien des ichthyologues donnent ce nom à trois sortes de poissons, 1 au Derby, 2 au Liche, 3 au véritable GLAUCUS," etc. (vol. II, p. 512).

"HARENG, HALEC, Les harengs sont des poissons de passage," etc. (vol. II, p. 610).

"TORPILLE, TORPEDO OU TREMBLE, TORPEDO POISSON," etc. (p. 458).

"GRAPPE MARINE, UVA MARINA."

These are plainly not scientific names. While the writer evidently grasps more or less clearly the meaning of genus and species, he has no conception of binomial nomenclature, as distinct from Latin equivalents of the vernacular names in French. Thus no one would take "*PISCIS ACULEATUS*" as a generic and specific name for the stickleback or *UVA MARINA* for the Alga (*SARGASSUM*) known as Sea-Grape. Further along (Edition II) occurs "*POISSON PÉTRIFIÉE*" indicated as "*Ichthyolithus*," which certainly is not the name of any genus. No scientific names, generic or specific, can be held to bear date from this first edition, 1764, of the dictionary of Valmont de Bomare.

"NOUVELLE ÉDITION," 1768, and "ÉDITION II," 1775.

The "Nouvelle édition," dated 1768, is the one examined by Mr. Garman. Except for the paging it seems substantially identical with the edition of 1775, formally called the "second." It has a few binomial terms, mostly among the sharks. The use of Latin equivalents for the French vernacular is still continued, but these assume more frequently a binomial form, especially in the rather elaborate index. The first edition (octavo) contains no index.

In the editions of 1768 and 1775 the only new names to be considered are *GALEUS*, *MUSTELUS*, *VULPECULA*, and *CATULUS*.

On page 116 (Edition II) we read:

"*CAGNOT BLEU*, *GALEUS GLAUCUS*, Grand poisson cartilagineux de la famille des chiens de mer." Then follows a fair account of the Great Blue Shark (*SQUALUS GLAUCUS* L.; *PRIONACE GLAUCA* of recent writers), taken from the description of the "Chien de mer bleu" of Rondelet (*de Piscibus*, 1558, p. 296). Rondelet begins "*GALEUS GLAUCUS*, en Languedoc, *CAGNOT BLEU*, poisson cartilagineux," etc. He uses the name "Chien de mer," or *GALEUS* in a general sense, including the "Aiguillat" (*ACANTHIAS*), the Emissole, ("*GALEUS LÆVIS*"), the "Chien de Mer Étoilé, *GALEUS ASTERIAS*," the "Mélandre, *GALEUS CANIS*," and the "Chien de Mer bleu, *GALEUS GLAUCUS*."

The other sharks are treated under different heads by Valmont. The entire arrangement appears in the index to the same volume.

"Cagnot bleu, *GALEUS GLAUCUS*," does not appear in the Fourth Edition (1791).



On page cxxxvii "MUSTELLUS" is defined:

"Espèce de Chien de mer, c'est le GALEUS STELLATUS des auteurs."

The name SQUALUS MUSTELUS L. was mostly based on Artedi's references to the "Émissole" or unspotted dog-fish, the GALEUS LÆVIS of Rondelet and Valmont. The specific name MUSTELUS should remain with that species. On the "LÆVIS" the name MUSTELUS of Linck in 1790 was clearly based. The same species, the "Émissole Commune," is clearly the type of MUSTELUS Cuvier (1817). But if the name MUSTELUS Valmont be accepted, its type must be the dog-fish with round spots, SQUALUS STELLATUS of Risso, MUSTELUS ASTERIAS Valmont.

On page ccxxii of the Index occurs the name "Renard Marin, VULPECULA MARINA." This is apparently borrowed from Willughby and it refers to ALOPIAS VULPINUS, the "Sea Fox" of modern authors. The name is not a "scientific" term, but merely a Latin rendering of the vernacular.

CATULUS rests on CATULUS VULGARIS, which is SCYLLIORHINUS CANICULA L. But the name is not available in any case, being preoccupied by CATULUS Kniphof, a genus of insects.

In the fourth edition (1791) Valmont gives a list of the genera of fishes. All those of Linnæus (1766) are enumerated, but no others and none of his own names are included in the list. Evidently he did not regard himself as having made additions to scientific nomenclature.

*The eligibility of Valmont's names is questioned as binomial only by accident, and not accepted as genera by the author himself in 1791.*

**Galeus** Valmont de Bomare, I, 371, 1768; type SQUALUS GLAUCUS L.

"CAGNOT BLEU, GALEUS GLAUCUS," with description.

If regarded as eligible GALEUS will replace PRIONACE and CYNOCEPHALUS.

**Vulpecula** Valmont de Bomare, III, 740, 1768; type VULPECULA MARINA Valmont = SQUALUS VULPINUS Bonnaterre = SQUALUS VULPES Gmelin.

"VULPECULA MARINA; RENARD MARIN," with description.

If eligible, VULPECULA will replace ALOPIAS Rafinesque, 1810.

**Catulus** Valmont de Bomare, IV, 51, 1768; type SQUALUS CANICULUS L. (CATULUS MAJOR VULGARIS Ray).

According to Sherborne, *Index Animalium*, it is preoccupied by CATULUS Kniphof, *De. Pedic.*, p. 16, 1759, a genus of insects. Equivalent to SCYLLIORHINUS Blainville.

**Mustelus** Valmont de Bomare, Ed. II, 746, 1768, and Ed. III, 1775, lxxx; type GALEUS ASTERIAS Valmont = MUSTELUS CANIS Mitchill, 1815 = MUSTELUS STELLATUS Risso, 1826.

"Galeus asterias aut Mustelus stellaris. Chien de mer à taches rondes."

XIII. GOUAN, *Historia Piscium*, 1770.

ANTOINE GOUAN.

**Trachipterus** Gouan, 104; type TRACHIPTERUS GOUANI = CEPOLA TRACHYPTERA Gmelin.

**Lepadogaster** Gouan, 105; type LEPADOGASTER GOUANI Gouan.

**Lepidopus** Gouan, 107; type LEPIDOPUS GOUANI Gouan (TRICHIURUS CAUDATUS Euphrasen).

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XIV. KÆLREUTER, *Piscium Rarorum*; Novi Comm. Act. Petropolit. VIII, 1770.

JOSEPH GOTTLIEB KÆLREUTER.

**Mola** Kœlreuter, 337; type MOLA ACULEATA Kœlreuter.  
Antedates MOLA Cuvier.

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XV. FORSTER, *Catalogue of Animals of North America*, 1771.

JOHN REINHOLD FORSTER.

**Remora** Forster, 20; type ECHENEIS REMORA L.  
Equivalent to REMORA of Catesby and of Gill.

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XVI. BRÜNNICH, *Collectio Nova Scriptorum Societatis Scientiarum Hafnensis*, 1771.

M. T. BRÜNNICH.

**Regalecus** Brünnich, III, 418; type REGALECUS REMIPES Brünnich (OPHIDIUM GLESNE Ascanius).  
Also described in 1788.

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XVII. CATESBY AND EDWARDS, *Natural History of Carolina, Florida and the Bahama Islands*, 1731-1750, by MARK CATESBY; Edition Second, 1771, by GEORGE EDWARDS.

The large folio volume in which Mark Catesby published the record of his visit to the Bahamas and other parts of America has had an important place in the history of American Ichthyology. Numerous editions of this work with the same plates have been published in German, French and English.

Two of these, the Edwards' Edition of 1771, and the edition quoted as "Catesby, Pisc. Imag., Etc., in 1777," are subsequent to Linnæus and may perhaps deserve consideration in nomenclature, although apparently not eligible in view of Opinion 57, which regards the post-Linnæan translation of Hasselquist as ineligible. These editions contain tables showing the Linnæan names of Catesby's species. Except as an evidence of "revision," these have no bearing on Catesby's "genera." If the generic names with polynomial specific names, of Gronow, Klein, and others are accepted, we can hardly refuse notice to the Latin nouns used by Catesby as republished by Edwards. These nouns have the force of genera, and being built about actual specimens they are mostly monotypic; while those of Gronow and Klein are subdivisions of a system, each covering as a rule many species. The names of Catesby are listed as genera in Sherborne's *Index Animalium* by an author who is rather critical of Latin vernaculars. But Catesby wrote before Artedi and Linnæus had framed the idea of a genus. He was not therefore consciously engaged in the differentiation of generic groups. He was not, to borrow a phrase from Mr. Stejneger, "playing the game." For this reason it seems to us that his names should not be admitted to the system. It is, however, very important to have a decision once for all in this matter.

*The names in Edwards' Catesby are of doubtful eligibility as being Latin vernacular nouns rather than genera, and as a reprint virtually unchanged of a pre-Linnæan work.*

**Umbla** Catesby, 1; type *ESOX BARRACUDA* Shaw (*SPHYRÆNA PICUDA* Bloch & Schneider). "UMBLA MINOR, MAXIMA MAXILLIS LONGIORIBUS, the Barracuda" Catesby.

Equivalent to *SPHYRÆNA* and prior to it, if accepted in the system.

**Mormyrus** Catesby, 2; type *ULÆMA LEFROYI* (Goode). "MORMYRUS EX CINEREO NIGRICANS, the Bone-fish" Catesby.

Identification somewhat uncertain. The name in any event is subsequent to *MORMYRUS* L.

**Saurus** Catesby, 2; type *SALMO FÆTENS* L. "SAURUS EX CINEREO NIGRICANS, the Sea Sparrow Hawk" Catesby.

Identical with *SYNODUS* Gronow, 1763.

**Albula** Catesby, 6; type *MUGIL CUREMA* Cuv. & Val. ("ALBULA BAHAMENSIS Catesby).

A synonym of *MUGIL* L., subsequent to *ALBULA* Gronow, 1763, and *ALBULA* Osbeck, 1761.

**Hirundo** Catesby, 8; type *CYPSELURUS* sp., "HIRUNDO" Catesby.

Not *HIRUNDO* L., 1758, a genus of Swallows.

**Turdus** Catesby, 9; type *LUTIANUS GRISEUS* (L.) "TURDUS PINNIS BRANCHIALIBUS CARENS, the Mangrove Snapper" Catesby.

Not *TURDUS*, 1758, a genus of Thrushes.

**Alburnus** Catesby, 12; type *CYPRINUS AMERICANUS* L. = *MENTICIRRUS AMERICANUS*. "ALBURNUS AMERICANUS, the Carolina Whiting" Catesby, type of *CYPRINUS AMERICANUS* L., *Syst. Nat.*, X, 321.

If accepted, the genus *ALBURNUS* must replace *MENTICIRRUS* Gill, and the genus of *CYPRINIDÆ* called *ALBURNUS* by Rafinesque and Agassiz must receive another name.

**Cugupuguacu** Catesby, 14; refers to *EPINEPHELUS MACULOSUS* (Cuv. & Val.). ("CUGUPUGUACU BRAZIL, the Hind" Catesby).

Catesby's fish is not that called *CUGUPUGUACU* by Marcgrave. If this barbarous name be allowed it will replace *EPINEPHELUS*. But it is evident that *CUGUPUGUACU*, *PETIMBUABO* and *ACARAUNA* are not in any sense generic names, but attempts on the part of Catesby to identify his species with those called in Brazil by these vernacular names. In the case of *ACARAUNA*, Catesby is himself doubtful. Even in case names used in an actual generic sense, as *UMBLA*, *AURATA*, *UNICORNIS* were allowed, *CUGUPUGUACU* and *ACARAUNA* should be rejected.

**Saltatrix** Catesby, 14; type *GASTEROSTEUS SALTATRIX* L., which is based on Catesby's figure, ("SALTATRIX, the Skipjack").

If allowed, will replace *POMATOMUS* Lacepède, 1802.

**Suillus** Catesby, 15; type *LACHNOLAIMUS SUILLUS* Cuvier, "SUILLUS" Catesby, based on Catesby's figure.

If allowed, *SUILLUS* will replace *LACHNOLAIMUS* Cuvier.

**Aurata** Catesby, 16; type *CALAMUS CALAMUS* (Cuv. & Val.). "AURATA BAHAMENSIS, the Porgy," Catesby.

Not *AURATA* Fleming, 1828, which is *SPARUS* L. If allowed, *AURATA* will replace *CALAMUS* Swainson.

**Salpa** Catesby, 17; type *SPARUS SYNAGRIS* L. (*LUTIANUS SYNAGRIS*, based on "SALPA PURPURASCENS VARIEGATA, the Lane Snapper," Catesby.

Prior to *SALPA* Forskål, 1775. If allowed, *SALPA* would replace *NEOMÆNIS* or *LUTIANUS* and perhaps add further to the confusion among the Salpoid Tunicates, although it is claimed that an earlier name, *DAGYSA*, must replace *SALPA* Forskål.

**Novacula** Catesby, 18; type *SCARUS CÆRULEUS* Bloch. "NOVACULA CÆRULEA, the Blue-fish," Catesby.

Name a synonym of *CALLYODON* Gronow, but prior to *NOVACULA* Cuvier, which is a synonym of *Xyrichtys* Cuvier.

**Petimbua** Catesby & Edwards, 18; refers to *FISTULARIA TABACARIA* L. "PETIMBUABO BRAZIL, the Tobacco Pipe-fish," Catesby.

A synonym of *FISTULARIA* L., but obviously not intended as a generic name.

**Unicornis** Catesby, 19; type *OSBECKIA SCRIPTA* (Osbeck). "UNICORNIS PISCIS BAHAMENSIS, the Bahama Unicorn-fish," Catesby.

If accepted, would replace *OSBECKIA* Jordan & Evermann.

**Bagre** Catesby, 23; type *SILURUS CATUS* L. (*AMEIURUS CATUS* L.) "BAGRE SECUNDÆ SPECIEI MARCGRAVEI AFFINIS, the Cat-fish," Catesby.

If accepted, *BAGRE* must replace *AMEIURUS*.

**Harengus** Catesby, 24; type *CLUPEA SARDINA* Poey. "HARENGUS MINOR BAHAMENSIS, the Pilchard," Catesby.

Equivalent to *HARENGULA* Cuv. & Val., and, if allowed, would replace the latter.

**Anthea** Catesby, 25; refers to *MESOPRION ANALIS* Cuv. & Val. A species of *NEOMÆNIS*, Girard. "ANTHEA QUARTUS RONDELETI, the Mutton-fish," Catesby.

Not intended as a generic name, being wrongly identified with the fourth *ANTHIA* of Rondelet.

**Remora** Catesby, 26; type *ECHENEIS REMORA* L. "REMORA, the Sucking-fish," Catesby.

Equivalent to *REMORA* Forster, and of Gill.

**Solea** Catesby, 27; type *PLEURONECTES LUNATUS* L., based on Catesby's figure. "SOLEA LUNATA ET PUNCTATA, the Sole," Catesby.

Not *SOLEA* of Klein nor of subsequent writers. If allowed, *SOLEA* would replace *PLATOPHRYS*; and *SOLEA* of Klein, Quensel, Rafinesque and Cuvier would require a new name.

**Orbis** Catesby & Edwards, 28; type *TETRAODON TESTUDINEUS* L. "ORBIS LÆVIS VARIEGATUS, the Globe-fish," Catesby.

A synonym of *TETRAODON* L.

**Psittacus** Catesby, 29; type *LABRUS CATESBÆI* Lacepède. "PSITTACUS PISCIS VIRIDIS BAHAMENSIS, the Parrot-fish," Catesby.

Not *PSITTACUS* L., 1758, a genus of parrots.

**Acus** Catesby, 30; type *ESOX OSSEUS* L. "ACUS MAXIMA SQUAMOSA VIRIDIS, the Green Gar-fish," Catesby.

Equivalent to *PSALISOSTOMUS* Klein and *LEPISOSTEUS* Lacepède.

**Acarauna** Catesby, 31; refers to *HOLACANTHUS CILARIS* L. "AN ACARAUNA MAJOR PINNIS CORNUTIS AN PARU BRASILIENSIBUS?, the Angel-fish," Catesby.

This name cannot be used to replace *HOLACANTHUS* as it represents a very doubtful identification on the part of Catesby; not at all a generic division.

**Vipera** Catesby, 9, Appendix; refers to *VIPERA MARINA* Catesby (*CHAULIODUS SLOANI* Bloch & Schneider).

As it is a fish, it cannot belong to the genus *VIPERA* L. *VIPERA MARINA* is apparently merely a vernacular name, sea-viper or viper-fish being intended.

**Cataphractus** Catesby, 9, Appendix; type *SILURUS CATAPHRACTUS* L. = *DORAS CATAPHRACTUS* of authors = *CATAPHRACTUS AMERICANUS* Catesby.

This name, being preoccupied, cannot replace *DORAS* Lacepède.

XVIII. GÜLDENSTADT, *Acerina piscis ad Percæ genus pertinens*:  
Nov. Comm. Acad. Petropol., 1774, XIX.

ANTON JOHANN VON GÜLDENSTADT.

Not seen by us.

**Acerina** GÜLDENSTADT, 455; type *PERCA CERNUA* L. (*ACERINA KABIR* GÜLDENSTADT).

Equivalent to *CERNUA* Schæfer.

XIX. *Descriptiones Animalium quæ in Itinere Orientali Observavit*,  
by PETRUS FORSKÅL (edited after the death of the author  
by CARSTEN NIEBUHR). 1775.

**Siganus** Forskål, X; type *SCARUS RIVULATUS* Forskål.

No definition. This genus has been of late years generally called *TEUTHIS*, but apparently this Linnæan name should remain with the group for which Browne first used it.

**Torpedo** Forskål, 1775, 16; type *RAJA TORPEDO* (not of Linnæus) =  
*SILURUS ELECTRICUS* Gmelin, *MALAPTERURUS ELECTRICUS* Lacepède.

Forskål describes the Electric Cat-fish of the Nile under the erroneous name of *RAJA TORPEDO* L. He questions whether it might be allied to *MORMYRUS* or whether it might find a place among the torpedoes of Rondelet, or might it be type of a new genus. "Aut potius novum constituere genus. Certe determinatur torpedinis CHARACTER GENERICUS: Piscis branchiostegus: apertura lineari, obliqua supra pinnæ pectorales; corpore nudo: pinnis ventralibus seu abdominalibus; dentibus numerosissimis densis, subulatis." This statement leaves no question as

to the species in mind, but *TORPEDO* Houttuyn, 1764, if available, is of still earlier date.

**Salaria** Forskål, X and 22; type (without specific name) = *BLENNIUS BASILISCUS* L.

The genus is equivalent to *BLENNIUS* L. Not *SALARIAS* Cuvier.

**Scarus** Forskål, 25; type *SCARUS PSITTACUS* Forskål.

The type no doubt intended was *LABRUS SCARUS* L., of the Mediterranean "antiquo nomine *σάργος*"; but that species was not mentioned by Forskål, and another must be taken as the type. The name *SCARUS* was earlier used by Gronow as a synonym of *LABRUS*. *SCARUS* of Forskål must give way to *CALLYODON* of Gronow if the names of Gronow are to be adopted. This is unfortunate, as *CALLYODON* has been used by most authors as the name of another genus in the same family.

**Abu-defduf** Forskål, 59; type *CHÆTODON SORDIDUS* Forskål.

Equivalent to the later *GLYPHISODON* of Lacepède, 1803. The definition of this genus admits of no question. It occurs in the same paragraph with the equally accurate definition of *ACANTHURUS*. It may receive objection as a barbarous name. It was probably a "stop-gap" word for which Forskål intended to supply a Latin equivalent. This his editor after his death failed to do and we must apparently take it as it stands: "A generic name is a name without necessary meaning." (*Baird.*)

**Acanthurus** Forskål, 59; type *CHÆTODON SOHAL* Forskål; to be replaced by *HEPATUS* Gronow, if Gronow's names are adopted; otherwise by *TEUTHIS* L.

Later restricted by authors to the first species named. *CH. UNICORNIS*.

Besides these names, clearly eligible, Forskål lists a number of subordinate groups or subgenera, under *PERCA*, *SCARUS* and *SCIÆNA*. Some of these are properly and fully defined, and would be accepted without question if in Latin. But all are in Arabic, and may perhaps be taken as vernacular words, as one might divide a genus into "Groupers," "Snappers" and "Porgies." We may perhaps reject them on the same ground as that on which we reject "les sphéroides."

In addition to these more or less formal names are two sections, one under *SCARUS* called "dentibus Abudjubbe," equivalent to *CHEILINUS* Lac., and one "dentibus Harid," equivalent to *SCARUS*. *LOUTI* and *DABA* are above reproach, except as to their Arabic origin. *ABUHAMRUR* is defined by reference to its type species. *NAQUA* is based on a species referred with doubt to *SCIÆNA*. *GHANAN*, *SCHOUR* and *TAHHMEL* are names only, identifiable by the correspondence with the Arabic names of their type species.

*These names of Forskål doubtfully eligible, being vernacular and not meant as subgeneric.*

**Naqua** Forskål, xvii; type *SCIÆNA GIBBA* Forskål.

With definition as "Piscis marinis rubri obscuris, an *Sciæna* 48?" Equivalent to *GENYOROGÉ* Cantor, 1850.

**Louti** Forskål, 44; type *PERCA LOUTI* Forskål.

With full definition. Equivalent to *VARIOLA* Swainson, 1839, which apparently it should replace.

**Daba** Forskål, 44; type *PERCA AREOLATA* Forskål.

With full definition. *EPINEPHELUS* Bloch, 1798, which apparently it should replace.

**Abuhamrur** Forskål, 44; type *SCIÆNA HAMRUR* Forskål.

With definition by reference to the type species. *PRIACANTHUS* Cuvier, 1817.

**Hobar** Forskål, 44; type *SCIÆNA BOHAR* Forskål.

With short definition. *LUTIANUS* Bloch, 1790.

**Farer** Forskål, 44; type *SCIÆNA SAMMARA* Forskål.

With definition. *HOLOCENTRUS* Gronow, 1763.

**Ghanan** Forskål, 44; type *SCIÆNA GHANAM* Forskål.

Without definition. *SCOLOPSIS* Cuvier, 1817.

**Djabub** Forskål, 44; type *SCIÆNA JARBUA* Forskål.

With definition. *THERAPON* Cuvier, 1817.

**Gaterin** Forskål, 44; type *SCIÆNA GATERINA* Forskål.

With scanty definition. *PLECTORHINCHUS* Lacepède, 1800.

**Schour** Forskål, 44; type *SCIÆNA NEBULOSA* Forskål.

Without definition. *LETHRINUS* Cuvier, 1817.

**Tahhmel** Forskål, 44; type *SCIÆNA TAHHMEL* Forskål.

Without definition. *KYPHOSUS* Lacepède, 1800, subgenus *OPISTHISTIUS* Gill, 1862.

XX. KLEIN, *Neuer Schauplatz der Natur, nach den Richtigsten Beobachtungen und Versuchen, in Alphabetischer Ordnung.*

Durch eine Gesellschaft der Gelehrten. Weidmann, Leipzig. (Quoted as "Gesellschaft Schauplatz.")

No author named, the account of the fishes compiled from *Historia Piscium Naturalis* Klein, perhaps by Philip Ludwig Stadius Müller, professor at Erlangen. Vol. I, 1775; vol. II, 1776; vol. III, 1776; vol. IV, 1777; vol. V, 1777; vol. VI, 1778; vol. VII, 1779; vol. VIII, 1779; vol. X, 1781.

JAKOB THEODOR KLEIN.



In a recent monograph of the sharks and rays (PLAGIOSTOMIA: Mem. Mus. Comp. Zool., Harvard College, XXXVI, 1916) Mr. Samuel Garman calls attention to the availability in nomenclature of names of genera accepted from Klein, a pre-Linnæan writer, in a post-Linnæan dictionary called "Neuer Schauplatz," or for convenience "Gesellschaft Schauplatz." This publication began, according to Mr. Garman, as a translation of Valmont de Bomare, but later it was extended and improved.

We find no copy of this work in the libraries of Washington and New York. It is probable that the copy in Mr. Garman's possession, which its owner has kindly placed at our disposal, is the only one now in the United States.

Mr. Garman remarks: "The Schauplatz referred to above is anonymous, it is true, but it gives the authorities for its generic and specific names, and thus its citations amount to republication after 1758, by the original authors, previous as the first publication may have been."

All the generic names used by Jacob Theodor Klein in his *Historia Piscium Naturalis*, 1740 to 1744, are here reproduced and accepted, thus bringing them for consideration into eligibility in scientific nomenclature. If accepted they therefore replace nearly all competing names except those of Artedi (1738) accepted by Linnæus (1758), and those of Gronow (1763).

Toward the middle of the eighteenth century the idea of genus among animals as a basis of classification became common property among naturalists. The name of the genus was recognized as consisting of a single word, but, until 1758, the species was indicated by a descriptive phrase attached to the name of the genus. By the device of binomial nomenclature, Linnæus made the system coherent, allotting to genus and species each a single word, the first a noun, the second of the nature of an adjective or genitive. In zoology, scientific nomenclature therefore dates from January 1, 1758, the time of the development of this system by Linnæus in the Tenth Edition of his *Systema Naturæ*.

Prior to Linnæus, on the basis of definite genera with polynomial species, three distinguished ichthyologists had separately developed, without knowledge of each other's work, a system of classification of fishes. These were Peter Artedi, "the Father of Ichthyology," in Upsala, in 1738; Jacob Theodor Klein, in Jena, 1740 to 1744; and Lorenz Theodor Gronow, in Leyden, 1754 to 1780. Of these authors the work of Artedi was the most compact and accurate, that of Klein the most elaborate, and that of Gronow based on the most material. Artedi's work was the basis of Linnæus's classification of the fishes. The principal part of the work

of Gronow was published in 1763. His names have been accepted as eligible by the International Commission of Zoological Nomenclature.

In this paper we give a list of these genera of Klein together with the Linnæan type, each as understood or as indicated by the present writer. In deciding on the type, the writer has been materially aided by the possession of a copy of Klein's *Historia Piscium Naturalis*, which was once the property of his commentator, Dr. Johann Julius Walbaum of Greifswald, and which contains profuse annotations in Walbaum's own handwriting.

Dr. Walbaum himself published in 1792 (*Petri Artedi sueci Genera Piscium*, 589-587) a classified record of the genera of Klein, but without actually accepting these as part of the System. Later Walbaum printed an Index to all these early names of various authors, as *Ichthyologia Enodata sive Index Rerum* (Leipzig, 1793). In this Index the generic and other names used by previous writers are arranged in alphabetical order with indication of the Linnæan synonymy. This again does not, in the view of the Zoological Commission (Opinion 21), involve the acceptance of any of these names. A reprint of Klein's *Historiæ Piscium Naturalis* was published, with notes by Walbaum, in 1802.

In the *Gesellschaft Schauplatz* Klein's names are frankly adopted, and the chief serious objection to be raised is that the species are named polynomially. We here omit those names in the *Schauplatz*, as ACIPENSER, CYPRINUS, XIPHIAS, etc., which had been used by Linnæus and were already accepted in the System with the same significance. We are indebted to Mr. Garman for the verification of the list and for the insertion of page references.

Illustrations of the method of the elliptical and disorderly *Schauplatz* are the following. In vol. I, p. 918, 1777, we read:

"Botte. RHOMBUS, ein Kleinisches Fischgeschlecht, welches Linné, PLEURONECTES G. 163, Müller Seitenschwimmer, Richter Butten nennt," etc. Description follows.

In III, p. 512, we find: "GREETE, Kleinische, eine Art platteise, Butten, Richter: s(iehe) Botte, RHOMBUS, des Kleins und unsern Artikel Th. I, s. 918; desgleichen Flunder, PASSER 4 des Kleins und unsern Artikel Th. III, s. 151" etc.

"PASSER 4" is the species called "PASSER ASPER s(EU), SQUAMOSUS Rondelet. This species is PLEURONECTES LIMANDA L. With (eight) other species named polynomially, it is set forth in the *Schauplatz*, after Klein. The quotations from Müller probably refer to the Nürnberg Edition of the *Systema Naturæ*, published in German by Professor Philip

Ludwig Statius Müller of Erlangen, in 1776. This edition in its Supplement contains a few new specific names but no new genera, so far as noticed.\*

The reference to "Richter," refers apparently to a work published at Leipzig, in 1754, by J. G. O. Richter, entitled "*Ichthyotheologie, oder Versuch die Menschen aus Betrachtung der Fische zu Bewunderung des Schöpfers zu führen.*" This we have not seen, but quote the title from Bosgoed. The same work appears in Dutch, in 1768, as "*Godleerende Viskkunde.*"

*The names in the "Gesellschaft Schauplatz" are all of doubtful eligibility, because not adopting the Linnæan Code as to species, and possibly because published in an anonymous dictionary.*

**Conger** Klein, I, 22, 1775; type *MURÆNA CONGER* L. "CONGER PINNA MEMBRANACEA" Klein.

A synonym of *CONGER* Houttuyn.

**Enchelyopus** Klein, I, 32, 1775; type *TRICHIURUS LEPTURUS* L. "ENCHELYOPUS CAPITIS PRODUCTO SERPENTINO" Klein.

A synonym of *TRICHIURUS* L., not *ENCHELYOPUS* Gronow.

**Brama** Klein, I, 61, 932, 1775; type *CYPRINUS BRAMA* L. "BRAMA PRIMI RADIO PINNÆ DORSALIS SIMPLICI" Klein.

*BRAMA*, if accepted, replaces *ABRAMIS* Cuvier, and the marine genus now called *BRAMA* would take the name of *LEPODUS* Rafinesque.

**Galeus** Klein, I, 70, 1775; type *SQUALUS GALEUS* L. "GALEUS ROSTRI EXTREMA PARTE PELLUCIDA" Klein.

Equivalent to *GALEORHINUS* Blainville, 1816 = *GALEUS* Cuvier, 1817, not *GALEUS* Valmont, 1768, nor of Rafinesque, 1810.

**Trutta** Klein, I, 115, 1775; type *SALMO TRUTTA* L. "TRUTTA TOTA ARGENTEA" Klein.

A synonym of *TRUTTA* L.

**Leuciscus** Klein, I, 172, 1775; type *CYPRINUS LEUCISCUS* L. "LEUCISCUS SUPRA LINEA LATERALIS" Klein.

*LEUCISCUS* Klein would replace *LEUCISCUS* Cuvier, Rafinesque, Agassiz, for the same group.

**Pelamys** Klein, I, 176, 1775; type *SCOMBER SCOMBRUS* L. "PELAMYS CORPORE CASTIGATO" Klein, the "makarel" of Willughby.

The genus, based on the tunnies and the mackerels, is exactly coterminous with *SCOMBER* L. If regarded as eligible, the genus of snakes, *PELAMYS* Daudin, must receive a new name.

\*See "On the Fishes Described in Müller's Supplemental Volume to the *Systema Naturæ* of Linnæus," D. S. Jordan, Proc. Acad. Nat. Sci., 1890, p. 48.

**Harengus** Klein, I, 209, 1775; type *CLUPEA HARENGUS* L. "HARENGUS VULGARIS" Klein.

Synonym of *CLUPEA* L.

**Amphisilen** Klein, I, 280, 1775; type *CENTRISCUS SCUTATUS* L. "AMPHISILEN" Klein.

Monotypic. A synonym of *CENTRISCUS* L., and *AMPHISILE* Cuvier.

**Latargus** Klein (misprint for *LATHARGUS*), I, 298, 1775; type *ANARHICAS LUPUS* L. "LATARGUS ROSTRO RETUSO DENTIS HORRIDIS" Klein.

Synonym of *ANARHICAS* L. Monotypic.

**Leiobatus** Klein, I, 316, 1775; type *RAJA OXYRHYNCHUS* L. "LEIOBATUS ROSTRO OMNIUM LONGISSIME PRODUCTO" Klein.

Synonym of *RAJA* L. Includes all smooth rays.

**Synagris** Klein, I, 442, 1775; type *SPARUS AURATA* L. "SYNAGRIS DORSO OBSCURE VIRIDE" Klein.

A synonym of *SPARUS* L. Includes many sparoid fishes.

**Mystus** Klein, I, 535, 1775; type "MYSTUS FLUVIATILIS" Klein = *CYPRINUS BARBUS* L., not *MYSTUS* Gronow, 1763.

Equivalent to *BARBUS* Cuvier.

**Passer** Klein, I, 816, 1775; type *PLEURONECTES FLESUS* L. "PASSER CUTE DENSIS TUBERCULIS."

Not of Brisson, 1760, a genus of birds. A synonym of *FLESUS* Moreau.

**Glaucus** Klein, I, 829, 1775; type *SCOMBER GLAUCUS* L. "GLAUCUS ACULEATUS MACULIS IN UTROQUE LATERE" Klein.

*GLAUCUS*, if allowable, replaces *CÆSIOMORUS* Lacepède, a genus distinct from *TRACHINOTUS* Lacepède, 1803. *HYPODIS* Rafinesque, 1810, is the same.

**Rhombus** Klein, I, 918, 1775, VIII, 88, 1779; type *PLEURONECTES RHOMBUS* L. "RHOMBUS OMNIUM MINIMUS PALMÆ LONGITUDINE."

This name antedates *RHOMBUS* Da Costa, 1776, a genus of Snails. If eligible, it replaces *BOTHUS* Rafinesque, and is equivalent to *RHOMBUS* Cuvier, 1817. The other nominal species of *RHOMBUS* are synonyms of the Turbot, *PSETTA MAXIMA* (L.).

**Rhombotides** Klein, I, 922, 1775; type *CHÆTODON CÆRULEUS* Bloch. "RHOMBOTIDES OBSCURE CÆRULEUS" Klein, after Catesby.

Synonym of *ACANTHURUS* Forskål, and of *TEUTHIS* of Browne and Linnæus, Klein suggests as substitute names, if *RHOMBOTIDES* is not acceptable, *EUROPUS* and *PSETTA*.

**Sargus** Klein, I, 966, 1775; type SPARUS SARGUS L. "SARGUS PINNIS VENTRALIBUS" Klein.

SARGUS, if allowed, replaces DIPLODUS Rafinesque, and SARGUS Cuvier. The genus of Insects called SARGUS would in this case require a new name.

**Dasybatus** Klein, I, 991, 1775; type RAJA PASTINACA L. "DASYBATUS CAUDA SQUAMEIS OSSEIS" Klein.

DASYBATUS, if allowed, replaces DASYATIS Rafinesque and TRYGON Adanson. Intended to include all the rough-skinned rays.

**Prochilus** Klein, I, 1043, 1775; type, as here restricted, "PROCHILUS LÆVIS LATERIBUS CARINATUS" Klein (BLENNIUS PHOLIS L.).

Equivalent to PHOLIS Cuv. & Val., a name used earlier for another genus by Gronow and Scopoli. In this sense PROCHILUS is a subgenus under BLENNIUS. . .

On plates in Bleeker's Atlas, PROCHILUS is used instead of AMPHIPRION, the species named first by Klein being AMPHIPRION EPHIPIUM (Bloch). We find, however, no formal restriction of PROCHILUS by Bleeker.

**Labrax** Klein, II, 32, 1775, and VIII, 164, 1779; type PERCA LABRAX L. "LABRAX SIVE LUPUS" Klein.

LABRAX, if allowed, replaces DICENTRARCHUS Gill = LABRAX Cuvier, 1817. Not LABRAX of Pallas, 1810, which is HEXAGRAMMOS.

**Percis** Klein, II, 45, Ed. 2, 1776; type PERCA CERNUA L., as restricted by Bleeker, *Systema Percarum Revisum*. "PERCIS PINNIS SEX ANTERIORE PARTE DORSALIS 14" Klein.

Equivalent to CERNUA Schæfer 1761, GYMNOCEPHALUS Bloch & Schneider 1801, to ACERINA Cuvier 1817, and CERNUA Fleming 1828; not PERCIS Scopoli 1777, nor of Cuvier.

**Narcacion** Klein, II, 237, 1776; IV, 726, 1777; type RAJA TORPEDO L. "NARCACION DEMTA CAUDA SINUOSA CIRCULARIS" Klein.

NARCACION, if accepted, replaces TORPEDO Duméril, not of Forskål. If rejected, NARCOBATUS Blainville is next in date. Monotypic.

**Mænas** Klein, II, 360, 1776; type SPARUS MÆNA L. "MÆNAS DILUTE VIRIDIS" Klein.

MÆNAS would replace MÆNA Cuvier.

**Cicla** Klein, II, 412, 1776; type LABRUS VIRIDIS L. "CICLA VIRIDIS OPERCULORUM" Klein.

Synonym of LABRUS L. Comprises all the species of LABRUS L., called TURDUS or MERULA by authors, these names also signifying "thrush." If accepted, CICHLA Bloch & Schneider, 1801, would require a new name.

**Rhina** Klein, II, 587, 1776; type RHINA SQUATINA L. "RHINA SIVE SQUATINA" Klein.

RHINA, if allowed, replaces SQUATINA Duméril.

**Rhinobatus** Klein, II, 593, 1776; type *RAJA RHINOBATUS* L. "RHINOBATUS SEU SQUATINO RAJA" Klein.

*RHINOBATUS* would replace *RHINOBATUS* Bloch & Schneider, 1801, and *SYRRHINA* Müller & Henle, based on the same species.

**Solea** Klein, III, 115, 1776; type *PLEURONECTES SOLEA* L. "SOLEA SQUAMIS MINUTIS" Klein.

*SOLEA* Klein would replace *SOLEA* Rafinesque, *SOLEA* Quensel and *SOLEA* Cuvier.

**Pseudopterus** Klein, III, 139, 1776; type *GASTEROSTEUS VOLITANS* L. "PSEUDOPTERUS QUI *PERCA AMBOINENSIS*" Klein.

Replaces, if allowed, *PTEROIS* Cuvier.

**Tetragonopterus** Klein, III, 153, 1776; type *CHÆTODON CAPISTRATUS* L. "TETRAGONOPTRUS LÆVIS AD CAUDAM BRUNNEA" Klein.

Synonym of *CHÆTODON* L. Bleeker uses this name in place of *CHÆTODON*, as Artedi's "type" of *CHÆTODON*—that is, the species first named—is a *POMACANTHUS*. But Artedi included also true species of *CHÆTODON* in his list, and the name was adopted by Linnæus from his own use of it, in the *Amœnitates Academicæ*.

**Batrachus** Klein, III, 202, 1776; type *LOPHIUS PISCATORIUS* L. "BATRACHUS RICTUQUE RANÆ" Klein.

Synonym of *LOPHIUS* L., not *BATRACHUS* Bloch & Schneider, 1801.

**Mastacembelus** Klein, III, 271, 1776; type *ESOX BELONE* L. "MASTACEMBELUS MANDIBULIS LONGISSIMIS" Klein.

Not *MASTACEMBELUS* Gronow, 1763; stands as *BELONE* Cuvier.

**Platiglossus** Klein, III, 300, 1776; type *HALICHÆRES MARGINATUS* Rüppell. "PLATIGLOSSUS SUBRUFUS SQUAMULIS LÆVIBUS" Klein.

Accepted by Bleeker as *PLATYGLOSSUS*. Klein's figure is crude, but recognizable.

**Lucius** Klein, III, 506, 1776; type *ESOX LUCIUS* L. "LUCIUS . . . ROSTRO QUASI ANSERINO" Klein.

Synonym of *ESOX* L. = *LUCIUS* Rafinesque.

**Cestracion** Klein, III, 523, 1776; type *SQUALUS ZYGÆNA* L. "CESTRACION FRONTE ACUS" Klein.

*CESTRACION*, if accepted, replaces *SPHYRNA* Rafinesque and *ZYGÆNA* Cuvier. *CESTRACION* Cuvier is a different genus, *HETERODONTUS* Blainville, *CENTRACION* Gray.

**Trichidion** Klein, III, 592, 1776; type *POLYNEMUS VIRGINICUS* L. "TRICHIDION CORPORE OBLONGO" Klein.

A synonym of *POLYNEMUS* L. as restricted by authors generally. Monotypic.

**Asperulus** Klein, III, 686, 1776; X, 236, 1781; type *PERCA ZINGEL* L. "ASPERULUS VEL ASPREDO DORSO ACUTO" Klein.

Identical with *ZINGEL* Oken. Monotypic.

**Corystion** Klein, III, 762, 1776; type *TRIGLA LAPPONICA* L. "CORYSTION CORPORE GRANULATO" Klein.

A synonym of *TRIGLA* L.

In volume III of the *Gesellschaft Schauplatz*, 1776, pp. 61-73, is given a list of the genera of fishes. This includes so far as we note all those proposed by Klein and those of Linnæus also, those of Klein appearing first. The names are not in alphabetical order, but follow the sequence of Klein's *Historia Piscum Naturalis*. This seems to imply a post-Linnæan acceptance of all of Klein's genera, even were their use in the text rejected. One new name appears:

**Pristis** Klein, III, 61, 1776; type "PRISTIS, der Sägeschnautz."

Equivalent to *PRISTIS* Linck.

## XXI. SCOPOLI, *Introductio ad Historiam Naturalem*, Prague, 1777.

JOHANN ANTON SCOPOLI.

A descriptive catalogue of the genera of animals and plants. The genera of fishes are mostly those of Linnæus and Gronow. No types are named save in the two new, *PERCIS* and *PTERIDIUM*.

The following names given by Gronow are not accepted by Scopoli:

*ENCHELYOPUS* (regarded as a synonym of *BLENNIUS*), *ELEOTRIS* (= *Gobius*), *PLECOSTOMUS* (= *Loricaria*), *CORACINUS* (= *Sciæna*), *CAL-LORHYNCHUS* (= *Chimæra*), *CATAPHRACTUS* (= *Pegasus*), *GYMNO-GASTER* (= *Trichiurus*), *CYCLOGASTER* (= *Liparis*), *HEPATUS*, (= *Teuthis*); *AMIA* is used only in the Linnæan sense.

**Liparis** (Artedi) Scopoli, 453; type (not named) *CYCLOPTERUS LIPARIS* L.

**Percis** Scopoli, 454; type *COTTUS JAPONICUS* Pallas.

Equivalent to *HIPPOCEPHALUS* Swainson, 1839, not *PERCIS* Klein.

**Pteridium** Scopoli, 454; type *CORYPHÆNA VELIFERA* Pallas (*PTERACLIS* Gronow).

The following names of Gronow are introduced into Linnæan nomenclature by Scopoli, without mention of type. These date from Scopoli, 1777, if the *Zoophylaceum* of Gronow, 1763, be not accepted.

ERYTHRINUS, 449	MYSTUS, 451
SYNODUS, 449	CALLICHTHYS, 451
CALLYODON, 449	ASPREDO, 453
HOLOCENTRUS, 449	CHARAX, 455
(misprinted HOLOCENTHRUS)	CLARIAS, 455
GONORHYNCHUS, 450	CYNÆDUS, 455
ALBULA, 450	PHOLIS, 456
UMBRA (Krämer), 450	MASTACEMBELUS, 458
ANABLEPS, 450	CHANNA, 459
ANOSTOMUS, 451	

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XXII. FORSTER, *Icones Ineditæ*; Bibliotheca Banksiæ, 1777.

JOHN REINHOLD FORSTER.

**Echidna** Forster, 181; type ECHIDNA VARIEGATA Forster = MURÆNA ECHIDNA Gmelin.

This generic name, according to Kaup, first appears in 1777, in the *Icones Ineditæ*. It must be retained for the genus of fishes, and is not available for the genus of mammals named ECHIDNA by Cuvier, = TACHYGLOSSUS.

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XXIII. KLEIN, *Gesellschaft Schauplatz*, vols. IV, V, 1777.

JAKOB THEODOR KLEIN.

**Oncotion** Klein, IV, 46, 1777; type CYCLOPTERUS LUMPUS L. "ONCOTION COLORE NIGRICANTE" Klein.

A synonym of CYCLOPTERUS L.

**Cynocephalus** Klein, IV, 161, 1777; type SQUALUS GLAUCUS L. "CYNOCEPHALUS GLAUCUS" Klein, as restricted by Gill.

CYNOCEPHALUS Boddært is of later date. Equivalent to PRIONACE Cantor.

**Callarias** Klein, IV, 327, 1777; type GADUS MORRHUA L. "CALLARIAS SORDIDE OLIVACEUS" Klein.

Synonym of GADUS L.

**Crayracion** Klein, IV, 788, 1777; type TETRAODON SPENGLERI Bloch. "CRAYRACION LÆVISSIMUS EX TERREO RUFESCENS" Klein.

A synonym of TETRAODON L.

The type of this genus was first fixed by Bleeker, *Atlas Ichth.*, 1865, 65. Bleeker observes: "La première espèce du genre compliqué que Klein en 1742 déjà nomma CRAYRACION étant le TETRAODON SPENGLERI des auteurs ou au moins une espèce extrêmement voisine, je propose d'indiquer sous ce nom générique toutes



les espèces à tentacule nasale non perforée. . . . Le nom de CRAYRACION est antérieur de plusieurs années à celui de TETRAODON et devrait être substitué à ce dernier si le type du genre n'était pas reconnu à un genre distincte du CRAYRACION LÆVISSIMUS de Klein."

This fixes the type of Klein on the species figured by him, but Bleeker is in error in supposing TETRAODON SPENGLERI to be a species with closed nostrils. The proper name for that group—(AROTHRON Müller: TETRAODON of several authors) seems to be OVOIDES Cuvier.

**Cataphractus** Klein, IV, 828, 1777; type COTTUS CATAPHRACTUS L.

"CATAPHRACTUS ROSTRO RESIMO" Klein.

Not CATAPHRACTUS Gronow. Stands as AGONUS Lacepède.

**Capriscus** Klein, V, 427, 1777; type BALISTES CAPRISCUS Gmelin.

"CAPRISCUS TRIBUS ACULEIS" Klein.

Synonym of BALISTES L.

**Cestreus** Klein, V, 460, 1777; type MUGIL CEPHALUS L. "CESTREUS DORSO REPANDO" Klein.

A synonym of MUGIL L.

#### XXIV. FORSTER, *Enchiridion*, 1778.

JOHN REINHOLD FORSTER.

**Harpurus** Forster, 84; type HARPURUS FASCIATUS FORSTER.

Equivalent to HEPATUS, TEUTHIS and ACANTHURUS.

#### XXV. KLEIN, *Gesellschaft Schauplatz*, vols. VI to X, 1778 to 1781.

JAKOB THEODOR KLEIN.

**Solenostomus** Klein, VI, 32, 1778; type FISTULARIA TABACCARIA L.

"SOLENOTOMUS CUTE GLABRA" Klein.

Synonym of FISTULARIA. If SOLENOTOMUS is accepted, a new generic name is required for SOLENOTSMUS Lacepède.

**Sphyræna** Klein, VI, 464, 1778; type ESOX SPHYRÆNA L.

Would replace SPHYRÆNA Röse, unless UMBLA Catesby is available.

**Gobio** Klein, VII, 178, 1779; type GOBIUS NIGER L. "GOBIO BRANCHIARUM OPERCULIS ET VENTRE FLAVICANTIBUS" Klein.

If allowed, GOBIO Klein becomes a synonym of GOBIUS L. and a new name would be required in place of GOBIO Cuvier.

**Hippurus** Klein, VII, 788, 1779; type CORYPHÆNA HIPPURUS L. "HIPPURUS PINNIS BRANCHIALIBUS" Klein.

Synonym of CORYPHÆNA L.

**Blennus** Klein, VIII, 589, 1779; type **BLENNIUS OCELLARIS** L. "BLENNUS PINNICEPS COLORIS" Klein.

Synonym of **BLENNIUS** L.

**Psalisostomus** Klein, X, 154, 1781; type **ESOX OSSEUS** L. "PSALISOSTOMUS OMNIUM MAXIMUS" Klein.

If allowed, replaces **LEPISOSTEUS** Lacepède.

XXVI. HERRMANN, *Schreiben ueber eine neues Americanisches Fischgeschlecht*, STERNOPTIX: Der Naturforscher, 2 Stück, vol. XVI, 1781.

JOHANN HERRMANN.

**Sternoptix** Herrmann, 8, 36; type **STERNOPTIX DIAPHANA** Herrmann.  
Monotypic.

XXVII. HOUTTUYN, *Beskriuing van Eenige Japanske Visschen*: Actæ Harlemensis, XX, pt. 2, 1782.

MARTIN HOUTTUYN.

**Centrogaster** Houttuyn, 333; type **CENTROGASTER FUSCESCENS** Houttuyn.  
A synonym of **SIGANUS** Forskål.

XXVIII. BLOCH, *Naturgeschichte der Ausländischen Fische*. Nine parts, 1785 to 1795. Part 2, 1786.

MARK ELIESER BLOCH.

**Kurtus** Bloch, II, 122, 1786; type **KURTUS INDICUS** Bloch.

Also written **KYRTUS** and **CYRTUS**. Monotypic.

**Macrourus** Bloch, II, 150, 1786; type **CORYPHÆNA RUPESTRIS** Fabricius, the "Ingmingoak" = **MACROURUS BERGLAX** Lacepède, which is not the same as **CORYPHÆNOIDES RUPESTRIS** Gunner.

XXIX. BLOCH, *Ueber Zwey Merkwürdige Fisch-Arten*: Abhandlungen Böhmischer Gesellschaft, I, 1787.

**Notacanthus** Bloch, 278; type **NOTACANTHUS CHEMNITZI** Bloch.

This name was changed by Bloch in 1797 to **ACANTHONOTUS** and the species to **ACANTHONOTUS NASUS**. Monotypic.

XXX. AHL, *De Muræna et Ophichtho*, 1787.

JONAS NICHOLAS AHL.

**Ophichthus** Ahl, 5; type **MURÆNA OPHIS** L., as restricted.

Unquestioned.

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XXXI. ASCANIUS, *Beretning um Silde-Tusten*: Dansk. Selsk. 1788.

P. ASCANIUS

**Regalecus** Ascanius, III, 419; type **OPHIDIUM GLESNE** Ascanius.

Other dates have been quoted, for example "Icones," 1772, a series of plates of objects in nature. This may not be the oldest.

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XXXII. BLOCH, *Charactere und Beschreibung des Geschlechts der Papageyfische*, **CALLYODON**: Abhandlungen Böhmischer Gesellschaft, IV, 1788.

MARK ELIESER BLOCH.

**Callyodon** Bloch, 242; type (presumably) **SCARUS CROICENSIS** Bloch.

Not seen by us.

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XXXIII. BLOCH, *Naturgeschichte der Ausländischen Fische*, III, 1788.

**Gymnetrus** Bloch, III, 1; type **GYMNETRUS HAWKENI** Bloch.

A synonym of **REGALECUS**.

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XXXIV. BROWNE, *Civil and Natural History of Jamaica*, Second Edition, 1789.

PATRICK BROWNE, M. D.

Originally published in 1756, reprinted in 1789, with a table showing the Linnæan equivalents of species named, and perhaps other revisions. No changes have been noted in the systematic part. In the original edition of 1756, as in later editions, the author refers to the works of Artedi and Gronow, with both of whom he was familiar. His recognition of genus as a technical term and not as a mere Latin noun is unmistakable. Browne adopts various genera of Artedi (later accepted by Linnæus), and to these he adds twelve new genera of his own. The species are

indicated by polynomial terms, to which are added the English vernacular names current in Jamaica.

The *History of Jamaica* is the ablest of all the works describing a local fish-fauna, prior to Linnæus, in quality comparable to the work of Osbeck, Hasselquist, and even of Forskål.

The revised republication of the work in 1789 may perhaps make the names of Browne eligible in nomenclature, if other authors rigidly correct as to generic names but polynomial as to species are to be considered. We have examined the original edition and the edition of 1789.

*The names of Browne are perhaps not eligible as not binomial and as occurring in a slightly revised reprint of a pre-Linnæan work.*

Following the precedent of Opinion 57, rejecting Hasselquist (*Iter Palestinum*), Browne's work would not be regarded as available.

**Solenostomus** Browne, 441; type "SOLENOTOMUS CORPORE TERETE SUBROTUNDO etc., the Trumpeter" = *FISTULARIA TABACCARIA* L.

This name, if eligible, antedates *SOLENOTOMUS* Klein and *SOLENOTOMUS* Lacépède. Monotypic.

**Menidia** Browne, 441; type "MENIDIA CORPORE PELLUCIDO, LINEA LATERALI LATIORI ARGENTEA" = *ATHERINA BROWNI* Gmelin, 1789.

This name, if accepted, replaces *ANCHOVIELLA* Fowler, besides rendering *MENIDIA* Bonaparte ineligible. Monotypic.

**Amia** Browne, 442; type "AMIA SUBARGENTEA LABRIS ÆQUALIBUS OSSICULUS BRANCHIOSTEGUS VIGINTIDUOBUS, the Tarpon" = *MEGALOPS ATLANTICUS* Cuv. & Val.

This name is equivalent to *TARPON* Jordan & Evermann. It is however preoccupied by *AMIA* Gronow and by *AMIA* L. Browne refers also to *AMIA*, a second species, "the Ten-pounder," which is *ELOPS SAURUS* L., type of the genus *ELOPS*.

**Mormyra** Browne, 445; type "MORMYRA MAJOR CÆRULEA ET AUREO VARIA, the larger Painted Parrot-fish" = *SCARUS VETULA* Bloch & Schneider.

The name *MORMYRA*, too close to *MORMYRUS* L., is subsequent to *CALLYODON* of Gronow, and to *SCARUS* Forskål. Three other species of Parrot-fish are placed by Browne in *MORMYRA*. Synonym of *CALLYODON*.

**Plagusia** Browne, 445; type "PLAGUSIA SUBCINEREA CAUDA ATTENUATA, the little Brown Sole with a pointed tail" = *PLEURONECTES PLAGUSIA* Bloch & Schneider, 1801 = *SYMPHURUS PLAGUSIA* Jordan & Evermann.

The name *PLAGUSIA* was adopted for this genus by Cuvier in 1829. It had however been earlier (1806) used by Latreille for a genus of Crustaceans.

Browne's name *PLAGUSIA*, if available, has priority over *SYMPHURUS* Rafinesque, 1820, as well as over the numerous later names applied to this group, the best known of which are *APHORISTIA* Kaup and *AMMOPLÉUROS* Günther. As there is a still earlier species, *PLAGUSIA PLAGIUSA* L., in this genus, the present species may perhaps stand as *PLAGUSIA ORNATA* Lacepède, "*PLAGIUSA*" being only a variant spelling of the same word.

**Helops** Browne, 445; type "*HELOPS NIGRESCENS VARIE NEBULATIM*, the Hog-fish of Catesby" = *LABRUS RUFUS* L.

If *HELOPS*, with this type, is accepted, it will eliminate the much confused generic name *BODIANUS* Bloch, based on the same type (*BODIANUS BODIANUS* Bloch = *LABRUS RUFUS* L.). *HARPE* Lacepède and *COSSYPHUS* Cuvier are later names for the same genus. The first species indicated by Browne under *HELOPS* is *LACHNOLAIMUS MAXIMUS* (Walbaum), the "*SUILLUS* or Great Hog-fish" of Catesby. This is "*HELOPS RUFESCENS IRIDE PARTIM RUBRA, PARTIM ALBIDA, MACULA NIGRA POST PINNIM DORSALEM*, the Hog-fish" of Browne. In the interest of nomenclature, it would be better to suppress *BODIANUS* rather than *LACHNOLAIMUS*, if *HELOPS* is found eligible.

**Cromis** Browne, 449; type "*CROMIS SUBARGENTEO OBLONGUS RADIIS ANTERIORIBUS DORSALIS ÆGRE PUNGENTIBUS*, the Drummer" = *LABRUS CROMIS* L. = *POGONIAS CHROMIS* of authors.

Browne cites four species of his genus *CROMIS*, the "*Silver Shad*" (*GERRES CINEREUS*), the Red-mouth Grunt (*HÆMULON PLUMIERI*), the Stone Bass (*DIAPTERUS BRASILIANUS*), and the Drummer (*POGONIAS CROMIS*). As the last named became *LABRUS CROMIS* L., we may take it as the type of the genus *CROMIS* of Browne, if the latter is eligible. *CROMIS* would then, if accepted, replace *POGONIAS* Lacepède. *CHROMIS* Cuvier, 1815, a more correct spelling of the same word, would then give place to *HELIASES* Cuvier.

**Macrocephalus** Browne, 449; type "*MACROCEPHALUS ARGENTEA MAJOR LINEA LATERALIS RECTA NIGRA*, the Snook" = *SCIÆNA UNDECIMALIS* Bloch.

Monotypic. Equivalent to *CENTROPOMUS* Lacepède. Preoccupied by *MACROCEPHALUS* Swederus, 1787, a genus of Insects.

**Pelmatia** Browne, 449; type "*PELMATIA MAJOR SQUAMIS VIX PERSPICUUS*, the Mud-fish" = *GOBIONOMORUS DORMITOR* Lacepède.

The name *PELMATIA*, if accepted, replaces *GOBIONOMORUS*, which in turn has replaced the excellent name *PHILYPNUS* of Cuvier.

The first species named under *PELMATIA* by Browne is "*PELMATIA MINOR SQUAMIS MAJUSCULUS*, the Bullhead." This is *DORMITATOR MACULATUS* (Bloch). Browne gives a long and correct account of *PELMATIA*, and notes that his "second sort," the mud-fish, is "most esteemed and grows frequently to the length of 17 to 20 inches. It is the most delicate fish I have yet known, when in full perfection."

**Thynnus** Browne, 451; type "THYNNUS BONTII CORPORE CRASSIORI ET BREVIORE etc., The Boneeto" = **SCOMBER PELAMYS** L.

This use of the name THYNNUS is later than that of Fabricius, 1775, for a genus of Insects. It antedates THYNNUS of Cuvier and it is equivalent to THYNNUS of Lütken, a name later changed to EUTHYNNUS by its author. **SCOMBER PELAMYS** L., the Oceanic Bonito, is the Bonito of Cuba and Jamaica, where the Northern Bonito, **SARDA SARDA**, is unknown. Of the "Boneeto," Browne observes that it is "a dry coarse fish, not much esteemed, though a hearty wholesome food." Should stand as EUTHYNNUS Lütken. Monotypic.

**Saurus** Browne, 452; type "SAURUS ARGENTEUS CUTE LONGITUDINALIS etc., the Leather Coat" = **SCOMBER SAURUS** Bloch & Schneider = **OLIGOPLITES SAURUS** of authors.

Not SAURUS Cuv. & Val., which is SYNODUS Gronow. If Browne's names are accepted, SAURUS must replace OLIGOPLITES Gill, its type species standing as SAURUS SAURUS (Bloch & Schneider). Two other species of SAURUS are enumerated by Browne, the "Red-tailed Jack" and the "White-fish."

**Teuthis** Browne, 454; type "TEUTHIS FUSCA CÆRULEO NITENS, the Doctor (TURDUS RHOMBOIDES Catesby)" = **CHÆTODON CÆRULEUS** Bloch.

The first application of the name TEUTHIS (τεῦθις, a squid) to a fish is that of Browne in 1756. Linnæus in 1766 accepted Browne's name TEUTHIS, and substituted it for Gronow's name HEPATUS, 1763. The republication of TEUTHIS in 1789 would help to fix the generic name TEUTHIS with Browne's original species. HEPATUS Gronow was primarily based on a specimen of the West Indian species called CHÆTODON CHIRURGUS by Bloch, with which CHÆTODON CÆRULEUS Bloch, the type of TEUTHIS, is strictly congeneric. The other species concerned, TEUTHIS JAVUS L., wrongly referred by Gronow to HEPATUS, should stand as SIGANUS Forskål. Cuvier and Valenciennes, according to Günther, were in error in referring Gronow's specimen, the type of TEUTHIS HEPATUS L., to an East Indian species, since called COLOCOPUS LAMBDURUS Gill.

The four species entangled in the confusion superimposed upon Browne, should, as Gill has shown, stand as follows:

HEPATUS or TEUTHIS CÆRULEUS (Bloch & Schneider).

HEPATUS or TEUTHIS HEPATUS L.

COLOCOPUS LAMBDURUS Gill.

SIGANUS JAVUS (L.).

**Rhomboida** Browne, 455; type "RHOMBOIDA ALEPIDOTA ARGENTEA PINNIS OMNIS BREVIBUS, the Silver-fish" = **VOMER BROWNI** Cuv. & Val., 1833.

The generic name RHOMBOIDA antedates that of VOMER Cuvier, and, if accepted, the type species would stand as RHOMBOIDA BROWNI (Cuv. & Val.) = PLATYSOMUS SPIXI Swainson, a species distinct from the northern VOMER SETIPINNIS (Mitchill).

Under Rhomboida, Browne mentions also "RHOMBOIDA MAJOR ALEPIDOTA, the Larger Silver-fish, with long fins (ZEUS CAUDA BIFURCA Artedi)." This must be

SELENE VOMER L. A third species is "RHOMBOIDA SQUAMOSA EX ARGENTEA, the Portuguese." This seems to be POMACANCHUS ARCUATUS L., the "Portugais" of the French Antillan fishermen.

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XXXV. LINCK, *Magazin Neuestes aus der Physik und Naturgeschichte*,  
Gotha, 1790.

H. F. LINCK.

This work we have not seen; we quote from Gill.

**Mustelus** Linck, 31; type SQUALUS MUSTELUS L. = MUSTELUS LÆVIS  
of authors.

Equivalent to PLEURACROMYLON Gill, not quite the same as MUSTELUS Valmont.

**Pristis** Linck, 31; type SQUALUS PRISTIS L.

Unquestioned.

**Rhinobatos** Linck, 32; type not specified: RAJA RHINOBATOS L.

Equivalent to RHINOBATUS Klein.

**Callichthys** Linck, 32; type not specified: SILURUS CALLICHTHYS L.

Equivalent to CALLICHTHYS Gronow.

**Alosa** Linck, 35 (scarcely defined); type not specified: CLUPEA ALOSA  
L. = ALOSA Cuvier.

**Thymallus** Linck, 35; type not specified: SALMO THYMALLUS L. =  
THYMALLUS Cuvier.

**Mola** Linck, 37; type DIODON MOLA L.

Equivalent to MOLA Koelreuter and Cuvier.

**Soarus** Linck (misprint for SAURUS), 37; type not specified and un-  
identifiable.

**Barbatula** Linck, 38; type COBITIS BARBATULA L.

Replaces ORELAS Sauvage; ORTHRIAS Jordan & Fowler.

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XXXVI. BLOCH, *Naturgeschichte der Ausländischen Fische*, IV, 1790.

MARK ELIESER BLOCH.

**Bodianus** Bloch, IV, 48; type BODIANUS BODIANUS Bloch, by tautonomy.

Replaces HARPE Lacepède. By first restriction, Cuvier and Gill, the type would be BODIANUS GUTTATUS Bloch, a species of ENNEACENTRUS Gill. Tautonomy has precedence in this case.

**Lutianus** Bloch, IV, 105; type LUTIANUS LUTIANUS Bloch.

Unquestioned. Also spelled LUTJANUS.

XXXVII. WHITE, *Journal of a Voyage to New South Wales*, 1790.

J. WHITE.

**Enoplosus** White, plate 39; type *CHÆTODON ARMATUS* White.

Lacepède quotes the name *ENOPLOSUS* from White. We have not seen this paper, and the name may have been first printed by Lacepède.

XXXVIII. VALMONT DE BOMARE, *Dictionnaire* etc., Edition IV, vol. VIII, 1791.

JEAN CHRISTOPHE VALMONT DE BOMARE.

**Acus** Valmont; type *ACUS ARISTOTELIS* Valmont = *SYNGNATHUS ACUS* L.

After Willughby. Same as *SYNGNATHUS* L.

XXXIX. SHAW, *Description of STYLEPHORUS CHORDATUS, a new fish*: Transactions of the Linnæan Society of London, I, 1791.

GEORGE SHAW.

**Stylephorus** Shaw, I, 90; type *STYLEPHORUS CHORDATUS* Shaw.  
Monotypic.

XL. WALBAUM, *Artedi Piscium*, 1792.

JOHANN JULIUS WALBAUM.

**Curimata** Walbaum, 80; type *SALMO MARCGRAVII* Walbaum, based on "CHARAX MAXILLA SUPERIORE LONGIORE" Gronow, which is *SALMO CYPRINOIDES* L.

*CURIMATA* should replace *CURIMATUS* Cuvier for this genus.

XLI. BLOCH, *Naturgeschichte der Ansländischen Fische*, VI, VII, 1792, 1793.

MARK ELIESER BLOCH.

**Anthias** Bloch, VI, 97, 1792; type *LABRUS ANTHIAS* L. = *ANTHIAS SACER* Bloch.

Unquestioned. *AYLOPON* Rafinesque is a substitute name, *ANTHIAS* being said to be preoccupied. We do not find it so. *ANTHIA*, a genus of Beetles, dates from 1801.



**Epinephelus** Bloch, VII, 11, 1793; type **EPINEPHELUS MARGINALIS** Bloch = **PERCA FASCIATA** Forskål, by general consent.

The genus **EPINEPHELUS** was based on **E. AFER**, **E. MARGINALIS**, **E. MERRA**, and **E. RUBER**. **MARGINALIS** and **MERRA** are congeneric, and belong to the great group called **EPINEPHELUS** by Gill, Bleeker, and nearly all recent authors. Of these, **MARGINALIS** is typical. The species named first, **AFER**, has been on that account chosen as type by Fowler, 1907. This species was separated as the type of **ALPH-ESTES** by Bloch & Schneider, 1801. **RUBER** was named as type by Jordan & Gilbert, 1883. This species under another name (**ACUTIROSTRIS** Cuv. & Val.) became the type of **PAEPINEPHELUS** Bleeker, 1875. Justice and convenience are best served by retaining the name **EPINEPHELUS** for its chief components, as understood by nearly all authors. Otherwise the genus would stand as **CERNA** Bonaparte, 1837, unless, with Fowler, we recognize **EPINEPHELUS GIGAS** (**PERCA GIGAS**) L. as the type of **SERRANUS** Cuvier, 1817, a change we think unnecessary. If the subgenera of Forskål, with Arabic names, are recognized, **EPINEPHELUS** must give place to **DABA**.

**Gymnocephalus** Bloch, VII, 24, 1793; type **PERCA SCHRÆTZER** L., equivalent to **CERNUA** Schæfer, **ACERINA** Cuvier, and **CERNUA** Fleming.

**Johnius** Bloch, VII, 132, 1793; type **JOHNIUS CARUTTA** Bloch, as restricted by Gill.

**Lonchiurus** Bloch, VII, 143, 1793; type **LONCHIURUS BARBATUS** Bloch, 1793 = **PERCA LANCEOLATA** Bloch, 1788.

Monotypic. Corrected by later writers to **LONCHURUS**.

**Cataphractus** Bloch, VII, 80, 1793; type **SILURUS CALLICHTHYS** L. as here restricted.

A synonym of **CALLICHTHYS**.

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XLII. RÖSE, *Petri Artedi Angermannia-Sueci Synonymia Nominum Piscium* etc. Greifswald. Edition II, 1793.

ANTON FERDINAND RÖSE.

This article, published as a supplement to Walbaum's *Artedi Piscium*, enumerates the generic names of Artedi and others, the species in their original polynomial form. In an Appendix are given a few new generic names, mostly taken from Aristotle. These genera are not described, nor are their species named, but the synonymy is fully given. Some of them had been already used by other authors. In our judgment, these names are eligible, and a few maintain priority of date.

**Phycis** Röse, III; type **φωκίς** Aristotle, **PHYCIS TINCA** Bloch & Schneider. **GADUS BLENNOIDES** Brünnich.

This is identical with **PHYCIS** Bloch & Schneider, 1801; the latter, but not the former, antedated by **PHYCIS** Fabricius, 1798, a genus of Insects. **PHYCIS** Röse replaces **EMPHYCUS** Jordan & Evermann, 1898.

**Cicla** Röse, 112; type "CICLA VIX PALMARIS" Röse, *κίχλη* Aristotle, a species of LABRUS, perhaps L. VIRIDIS L.

CICLA Klein is identical with that of Röse. Schneider, more correctly, wrote the word CICHLA, but applied it to a different group.

**Sphyræna** Röse, 112; type σφύρῃνα Aristotle = ESOX SPHYRÆNA L.

This antedates SPHYRÆNA Bloch & Schneider, 1801, for the same genus.

**Hepatus** Röse, 113; type ἥπατος Aristotle, which is probably LABRUS HEPATUS L., the type of the genus PARACENTROPYSTIS Bleeker.

HEPATUS Gronow is wholly different.

**Capriscus** Röse, 114; type καπρίσκος Diphili, κάπρος Aristotle, which is probably BALISTES CAPRISCUS L.

A synonym of BALISTES L.

**Tænia** Röse, 114; type ταινία Aristotle = CEPOLA TÆNIA L.

The genus is equivalent to CEPOLA L., and is preoccupied in Worms by TÆNIA L.

**Pholis** Röse, 116; type φολίς Aristotle = BLENNIUS PHOLIS L.

Equivalent to PHOLIS Cuv. & Val., not of Scopoli, 1777.

**Citharus** Röse, 116; type κιθάρος Aristotle = PLEURONECTUS LINGUATULA L.

Equivalent to CITHARUS Bleeker, 1862, and EUCITHARUS Gill, 1888; not CITHARUS Reinhardt, 1838, which is HIPPOGLOSSOIDES.

**Liparis** Röse, 117; type "LIPARIS NOSTRAS Johnson" = CYCLOPTERUS LIPARIS L.

Equivalent to CYCLOGASTER Gronow and LIPARIS Scopoli.

**Chelon** Röse, 118; type χάλλων or χέλων Aristotle, CHELON of Gesner, which is probably MUGIL CHELO Cuv. & Val.

Probably equivalent to CHÆNOMUGIL Gill, but the European and American types need further comparison.

XLIII. LATHAM, *Essay on the various species of Saw-Fish*: Transactions of the Linnæan Society of London, 1794.

JOHN F. LATHAM.

**Pristis** Latham, II, 276; type SQUALUS PRISTIS L.

Same as PRISTIS Linck.

XLIV. VAHL, *Beskrivelse af en nye Fiskeslaegt*: Shrivt. Naturh. Selsk., Kjöbenhavn, III, 1794.

M. VAHL.

**Cæcula** Vahl, III, 2, 149; type CÆCULA PTERYGERA Vahl.

Monotypic.

XLV. BLOCH, *Naturgeschichte der Ausländischen Fische*, VIII, 1794;  
IX, 1795.

MARK ELIESER BLOCH.

**Platystacus** Bloch, VIII, 52, 1794; type **PLATYSTACUS COTYLEPHORUS**  
Bloch, as usually restricted.

**Ophicephalus** Bloch, VIII, 137, 1794; type **OPHICEPHALUS PUNCTATUS**  
Bloch.

Unquestioned. Corrected by later writers to **OPHIOCEPHALUS**.

**Sphagebranchus** Bloch, IX, 88, 1795; type **SPHAGEBRANCHUS ROSTRATUS**  
Bloch.

Monotypic.

**Gymnothorax** Bloch, IX, 83, 1795; type **GYMNOTHORAX MURÆNA** Bloch  
= **MURÆNA HELENA** L.

A synonym of **MURÆNA** L. Günther, *Cat. Fish*, VIII, p. 100, 1870, restricts  
the names to allies of **MURÆNA AFRA** = **LYCODONTIS** McClelland, an arrangement  
apparently not defensible, as **GYMNOTHORAX** was plainly a substitute name for  
**MURÆNA**, and must retain the same type, **MURÆNA HELENA** L.

**Synbranchus** Bloch, IX, 86, 1795; type **SYMBRANCHUS MARMORATUS**  
Bloch.

Name corrected by later writers to **SYMBRANCHUS**.

**Platycephalus** Bloch, IX, 96, 1795; type **PLATYCEPHALUS SPATHULA**  
Bloch = **COTTUS INSIDIATOR** Forskål = **CALLIONYMUS INDICUS** L.

Unquestioned.

**Gastrobranchus** Bloch, XII, 51, 1797; type **GASTROBRANCHUS CÆCUS**  
Bloch = **MYXINE GLUTINOSA** L.

A synonym of **MYXINE** L.

**Acanthonotus** Bloch, XII, 113, 1797; type **ACANTHONOTUS NASUS**  
Bloch, 1797 = **NOTACANTHUS CHEMNITZI** Bloch, 1787.

A needless substitute name for **NOTACANTHUS**.

XLVI. FABRICIUS, *Beskrivelse over to siældnè Grönländske Fiske*:  
Skrivt. Naturhist. Selskab. Kjöbenhavn, 1793, II.

OTTO FABRICIUS.

**Campylodon** Fabricius, 12; type **CAMPYLODON (FABRICII** Reinhardt),  
1838.

A synonym of **NOTACANTHUS** Bloch. Mononomial and monotypic.

XLVII. VOLTA, *Ichthyolithologia Veronensis*, 1796.

SERAFINO VOLTA.

**Blochius** Volta, 53; type **BLOCHIUS LONGIROSTRIS** Volta (Family **BLOCHIIDÆ**, fossil).

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XLVIII. LACEPÈDE, *sur le Polyodon feuille*: Bull. Sci. Soc. Philom., 1797.

BERNARD GERMAIN ÉTIENNE DE LA VILLE-SUR-ILLON COMTE DE LACEPÈDE.

The name of this author should be written Lacepède. Sherborne, *Index Animalium*, says: "A letter dated 1831 is signed 'b. g. é cte. de Lacepède.' This spelling and accentuation should be adhered to."

**Polyodon** Lacepède, 49; type **POLYODON FOLIUM** Lacepède.  
Monotypic.

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XLIX. CUVIER, *Tableau Élémentaire*, 1798.

GEORGES JEAN LEOPOLD NICOLAS FRÉDÉRIC CUVIER.

**Mola** Cuvier, 323; type **DIODON MOLA** L.

Equivalent to **MOLA** Kœlreuter. Prior to **ORTHAGORISCUS** Bloch & Schneider, 1801. Monotypic.

**Murænophis** Cuvier, 329; type **MURÆNA HELENA** L.

A synonym of **MURÆNA** L.

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L. GEOFFROY SAINT HILAIRE, *Description d'un nouveau Genre de Poisson*: Bull. Soc. Sci. Philom., III, "An X de la République," 1798.

ÉTIENNE GEOFFROY SAINT HILAIRE.

**Polypterus** St. Hilaire, 97; type **POLYPTERUS BICHR** St. Hilaire.  
Monotypic.

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LI. RETZIUS, *Lampris, En ny Fiskslagt Beskriven*: Vet. Acad. Nya Handl., Stockholm, XX, 1799.

A. J. RETZIUS.

**Lampris** Retzius, 91; type **ZEUS GUTTATUS** Brünnich = **ZEUS REGIUS** Bonnaterre.

LII. SHAW, *Naturalist's Miscellany*, 1799.

GEORGE SHAW.

**Trachichthys** Shaw, 378; type **TRACHICHTHYS AUSTRALIS** Shaw.  
Monotypic.

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LIII. CUVIER, *Leçons d'Anatomie Comparée*, 1800.

GEORGES CUVIER.

**Ovoides** Cuvier, I, tab. 1; type **OVOIDES FASCIATUS** Lacepède = **TETRODON STELLATUS**.

After "LES OVOIDES Lacepède," 1798. Replaces **AROTHRON** Müller.

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LIV. LACEPÈDE, *Histoire Naturelle des Poissons*, \*vol. I, 1798; II, 1800.

BERNARD GERMAIN ÉTIENNE DE LA VILLE-SUR-ILLON, COMTE DE  
LACEPÈDE (here called "CITOYEN LA CEPÈDE").

The generic names in Volume I, 1798, and Volume II, 1800, to page 160, are nearly all given in French vernacular and are therefore ineligible. Scientific forms for most of these were supplied by Duméril, *Zoologie Analytique*, 1806, from which work the generic names in question must be dated.

**Aodon** Lacepède, I, 297, 1798; type **SQUALUS MASSASA** Forskål, as restricted by Jordan & Evermann.

A shark, perhaps imaginary, with no teeth and with long pectorals. The Latin name **AODON** is used, as well as the French "LES AODONS."

**Ovoides** (Lacepède), 521, "LES OVOIDES"; type "L'OVOIDE FASCÉ."

A front view of **TETRAODON STELLATUS** L. Equivalent to **OVOIDES** Cuvier.

**Spheroides** (Lacepède) Duméril (LES SPHÉROIDES), II, 22, 1800; type  
LE SPHÉROIDE TUBERCULÉ Lacepède.

A front view of **TETRAODON SPENGLERI** Bloch. A synonym of **TETRAODON** as here understood.

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\* Of this work we have before us two reprints, neither with the original pagination. This, however, we are able to give, through the kindness of Mr. Henry W. Fowler of the Academy of Natural Sciences of Philadelphia, who has supplied us with a complete list of the genera and the pages on which they occur.

In the original edition the author styles himself "Citoyen La Cepède."

**Macrorhynchus** (Lacepède) Duméril (LES MACRORHYNQUES); type LE MACRORHINQUE ARGENTÉ Lacepède, SYNGNATHUS ARGENTEUS Osbeck.

Probably replaces DICROTUS Günther.

**Cæcilia** Lacepède, II, 134, 1800 (LES CÆCILIES); type CÆCILIA BRANDERIANA Lacepède = MURÆNA CÆCA L.

Not CÆCILIA L., a genus of Amphibians. A synonym of SPHAGEBRANCHUS Bloch.

**Monopterus** (Lacepède), Duméril, II, 138, 1800 (LES MONOPTÈRES); type MONOPTERUS JAVANENSIS Lacepède.

**Notopterus** Lacepède, II, 189, 1800; type GYMNOTUS KAPERAT Bonnaterre (GYMNOTUS NOTOPTERUS Pallas).

**Ophisurus** Lacepède, II, 195, 1800; type MURÆNA SERPENS L. as restricted by Risso, 1826.

**Triurus** Lacepède, II, 200, 1800; type TRIURUS BOUGAINVILLEI Lacepède, later called POMATIAS by Bloch & Schneider.

Unidentified. A deep-sea fish, apparently allied to AULOSTOMATOMORPHA Alcock, but without ventral fins.

**Apteronotus** Lacepède, II, 208, 1800; type APTERONOTUS PASSAN Lacepède = GYMNOTUS ALBIFRONS L.

Must replace STERNARCHUS Bloch & Schneider.

**Odontognathus** Lacepède, 220, 1800; type ODONTOGNATHUS MURICATUS Lacepède.

**Macrognathus** Lacepède, II, 283, 1800; type OPHIDIUM ACULEATUM L.

Replaces RHYNCHOBDELLA Bloch & Schneider, with the same type. The name MACROGNATHUS was used by Gronow in 1754 (but not in 1763) to designate the group called BELONE Cuvier.

**Comephorus** Lacepède, II, 312, 1800; type CALLIONYMUS BAIKALENSIS Bonnaterre.

Monotypic.

**Rhombus** Lacepède, II, 312, 1800; type STROMATEUS ALEPIDOTUS L.

Preoccupied, replaced by PEPRILUS Cuvier.

**Murænoides** Lacepède, II, 324, 1800; type BLENNIUS MURÆNOIDES Sujef (BLENNIUS GUNNELLUS L.).

Equivalent to PHOLIS Scopoli, 1777.

**Calliomorus** Lacepède, II, 343, 1800; type CALLIONYMUS INDICUS L.

Synonym of PLATYCEPHALUS Bloch.

**Batrachoides** Lacepède, II, 351, 1800; type **BATRACHOIDES TAU** Lacepède.

Not **GADUS TAU** L.

Because the body is said to be covered with scales, "molles, petites, minces, rondes, brunes, bordées de blanc et arrosées par une mucosité très abondantes," we cannot identify this genus with the naked **GADUS TAU** L., which is identical with the type of **OPSANUS** Rafinesque.

**Oligopodus** Lacepède, II, 511, 1800; type **CORYPHÆNA VELIFERA** Pallas.

Equivalent to **PTERACLIS** Gronow.

**Hiatula** Lacepède, II, 522, 1800; type **HIATULA GARDENIANA** Lacepède  
= **LABRUS ONITIS** L. = **LABRUS HIATULA** L.

Not **HIATULA** Modeer, 1793, a genus of Mollusks. Gives way to **TAUTOGA** Cuvier.

**Tænioides** Lacepède, II, 532, 1800; type **TÆNIOIDES HERMANNIANUS** Lacepède.

**Gobioides** Lacepède, II, 576, 1800; type **GOBIUS BROUSSONETI** Lacepède,  
as restricted by Jordan & Evermann, 1898.

**Gobiomorus** Lacepède, II, 583, 1800; type **GOBIOMORUS DORMITOR** Lacepède, as restricted by Jordan.

Replaces **PHILYPNUS** Bloch & Schneider, 1801.

**Gobiomoroides** Lacepède, II, 592, 1800; type **GOBIOMOROIDES PISON** Lacepède = **GOBIUS PISONIS** L., a species of **ELEOTRIS** Gronow.

Monotypic.

**Gobiesox** Lacepède, II, 595, 1800; type **GOBIESOX CEPHALUS** Lacepède.

Monotypic.

## LV. BLOCH & SCHNEIDER, *Systema Ichthyologia*, 1801.

MARK ELIESER BLOCH.

Edited and extended by JOHANN GOTTLÖB SCHNEIDER.

**Batrachus** Bloch & Schneider, 42; type **BATRACHUS SURINAMENSIS** Schneider, as restricted by Jordan & Evermann.

The name has been usually applied to the congeners of **GADUS TAU** L., not of Bloch, the group called **OPSANUS** by Rafinesque. But no ally of the scaleless **GADUS TAU** is placed in **BATRACHOIDES** by Lacepède or in **BATRACHUS** by Schneider, only scaly species being known to either.

**Enchelyopus** Bloch & Schneider, 50; type, as first restricted, **GADUS CIMBRIUS** L. (**RHINONEMUS CIMBRIUS** Gill).

Not **ENCHELYOPUS** of Gronow, which is **ZOARCES** Cuvier, nor of Klein, which is **TRICHIURUS**.

**Phycis** Bloch & Schneider, 56; type *BLENNIUS PHYCIS* L. (*PHYCIS TINCA* Bloch & Schneider).

Equivalent to *PHYCIS* Röse, 1793; not *PHYCIS* Fabricius, 1798, a genus of Butterflies.

**Periophthalmus** Bloch & Schneider, 63; type *PERIOPHTHALMUS PAPILIO* Bloch & Schneider.

**Eleotris** Bloch & Schneider, 65; type *ELEOTRIS* Gronow (*GوبيUS PISONIS* Gmelin).

The name is borrowed from Gronow, whose *ELEOTRIS* is the *ELEOTRIS* of Cuvier and subsequent authors. But *ELEOTRIS PISONIS* is indicated by Schneider as "a species of doubtful relations, perhaps a *PERIOPHTHALMUS*." We let the current arrangement stand, though on shaky foundation, unless the names of Gronow are finally accepted. The genus *ELEOTRIS* of Bloch & Schneider represents an utter confusion of species, many of them not gobies at all.

**Brama** Bloch & Schneider, 98; type *SPARUS RAJI* Bloch.

Not *BRAMA* Klein, which is *ABRAMIS* Cuvier.

**Monocentris** Bloch & Schneider, 100; type *GASTEROSTEUS JAPONICUS* Houttuyn.

Monotypic.

**Sphyræna** Bloch & Schneider, 109; type *ESOX SPHYRÆNA* L.

Equivalent to *UMBLA* Catesby. Subsequent to *SPHYRÆNA* Röse.

**Trichogaster** Bloch & Schneider, 164; type *TRICHOGASTER FASCIATUS* Bloch & Schneider.

**Centronotus** Bloch & Schneider, 165; type *CENTRONOTUS FASCIATUS* Schneider.

A synonym of *PHOLIS* Scopoli.

**Percis** Bloch & Schneider, 179; type *PERCIS MACULATA* Schneider.

Not *PERCIS* Klein nor of Scopoli. Replaced by *PARAPERCIS* Bleeker. Monotypic.

**Trichonotus** Bloch & Schneider, 179; type *TRICHONOTUS SETIGER* Bloch & Schneider.

Monotypic.

**Monoceros** Bloch & Schneider, 180; type *MONOCEROS BIACULEATUS* Bloch & Schneider (*CHÆTODON UNICORNIS* Forskål).

Name preoccupied in Mollusks. Equivalent to *NASO* Lacepède.

**Grammistes** Bloch & Schneider, 182; type *PERCA SEXLINEATA* Thunberg.

A jumble of striped fishes, restricted by Cuvier to the *GRAMMISTES* of Seba, *G. SEXLINEATUS*.

**Synanceja** Bloch & Schneider, 194; type *SCORPÆNA HORRIDA* L.

By common consent. Commonly written *SYNANCEIA*.



**Amphiprion** Bloch & Schneider, 200; type *LUTJANUS EPHIPIUM* Bloch.

**Amphacanthus** Bloch & Schneider, 206; type *CHÆTODON GUTTATUS* Bloch.

Equivalent to *TEUTHIS* L. as restricted = *SIGANUS* Forskål.

**Alphestes** Bloch & Schneider, 236; type *ALPHESTES AFER* Bloch & Schneider.

**Cephalopholis** Bloch & Schneider, 311; type *CEPHALOPHOLIS ARGUS* Bloch & Schneider.

Monotypic. Replaces *ENNEACENTRUS* Gill.

**Calliodon** Bloch & Schneider, 312; type *CALLIODON LINEATUS* Bloch & Schneider (*SCARUS CROICENSIS* Bloch).

Equivalent to *CALLYODON* Gronow.

**Cichla** Bloch & Schneider, 336; type *CICHLA OCELLARIS* Bloch & Schneider as restricted by Heckel, 1840.

Name to be changed if *CICLA* Klein is eligible.

**Rhina** Bloch & Schneider, 353; type *RHINA ANCYLOSTOMUS* Bloch & Schneider.

Not of Klein; equivalent to *RHAMPHOBATIS* Gill.

**Rhinobatus** Bloch & Schneider, 353; type *RAJA RHINOBATUS* Forskål.

Equivalent to *RHINOBATOS* Linck.

**Anableps** Bloch & Schneider, 389; type *ANABLEPS TETROPTHALMUS* Bloch & Schneider (*COBITIS ANABLEPS* L.).

Equivalent to *ANABLEPS* Gronow and of Scopoli.

**Synodus** Bloch & Schneider, 396; type *ESOX SYNODUS* L.

Replaces *SAURUS* Cuvier.

**Chauliodus** Bloch & Schneider, 430; type *CHAULIODUS SLOANI* Schneider.

**Albula** Bloch & Schneider, 433; type *ALBULA CONORHYNCHUS* Schneider (*ESOX VULPES* L.). *ALBULA* Gronow.

Not *ALBULA* Osbeck. To stand as *BUTYRINUS* Lacepède, if Osbeck's names are accepted.

**Pœcilia** Bloch & Schneider, 453; type *PÆCILIA VIVIPARA* Bloch & Schneider.

By common consent.

**Polyodon** (Lacepède) Bloch & Schneider, 457; type "LE POLYDON FEUILLE" Lacepède, 1798 = *SQUALUS SPATHULA* Walbaum.

**Rhynchobdella** Bloch & Schneider, 479; type *RHYNCHOBDELLA ORIENTALIS* Bloch & Schneider = *OPHIDIUM ACULEATUM* Bloch.

As restricted by Cuvier. A synonym of *MACROGNATHUS* Lacepède, 1800.

**Sternarchus** Bloch & Schneider, 497; type *GYMNOTUS ALBIFRONS* L.

A synonym of *APTERONOTUS* Lacepède, 1800.

**Orthagoriscus** Bloch & Schneider, (misprinted ORTHRAGORISCUS), 510; type DIODON MOLA (Bloch).

Equivalent to MOLA Kœlreuter.

**Bogmarus** Bloch & Schneider, 518; type BOGMARUS ISLANDICUS Bloch & Schneider (GYMNOGASTER ARCTICUS Brünnich).

A synonym of TRACHIPTERUS Gouan. Monotypic.

**Gymnonotus** Bloch & Schneider, 521; type GYMNOTUS CARAPO L. (corrected spelling for GYMNOTUS).

**Ovum** Bloch & Schneider, 530; type OVUM COMMERSONI Bloch & Schneider = "L'OVOIDE FASCÉ, Lacepède, 1798.

Monotypic. Equivalent to OVOIDES Cuvier. OVUM Martin, 1764, is recorded by Sherborne as a "vernacular name only."

**Typhlobranchus** Bloch & Schneider, 537; type TYPHLOBRANCHUS SPURIUS Bloch & Schneider.

Monotypic, not identified. A river eel of Tropical America, without gill-openings. Doubtless a synonym of SYMBRANCHUS.

**Gnathobolus** Bloch & Schneider, 556; type ODONTOGNATHUS MUCRONATUS Lacepède.

Equivalent to ODONTOGNATHUS.

**Pomatias** Bloch & Schneider, 559; type TRIURUS BOUGAINVILLEI Lacepède.

Equivalent to TRIURUS.

**Fluta** Bloch & Schneider, 565; type MONOPTERUS JAVANENSIS Lacepède.

Equivalent to MONOPTERUS. Like the two preceding, a needless substitute name.

LVI. LACEPÈDE, *Histoire Naturelle des Poissons*, vol. III, 1802; IV and V, 1803.

BERNARD GERMAIN LACEPÈDE.

**Scomberoides** Lacepède, III, 50, 1802; type SCOMBEROIDES COMMERSONIANUS Lacepède (SCOMBER LYSAN Forskål).

**Caranx** Lacepède, III, 57, 1802; type SCOMBER CARANGUS Bloch = CARANX HIPPOS L., as restricted by Bleeker, the first reviser.

The generic name CARANX was taken by Lacepède from the manuscripts of Commerson, who first applied the name to SCOMBER SPECIOSUS Forskål. In revising the genus, Bleeker referred SPECIOSUS to a new genus, GNATHANODON. This view Dr. Gill accepted at first, but later selected SPECIOSUS as the type of CARANX, leaving some older name as TRICROPTERUS Rafinesque or CARANGUS Griffith for the bulk of the species of this extensive group. Later, by the process of elimination, CARANX RUBER was selected by Jordan as type of CARANX. On the whole it seems

most just, as it is certainly most convenient, to recognize the right of Bleeker as "first reviser." *CARANX CARANGUS* is congeneric with *C. RUBER*.

*Trachinotus* Lacepède, III, 78, 1802; type *SCOMBER FALCATUS* Forskål.

*Caranxomorus* Lacepède, III, 82, 1802; type *SCOMBER PELAGICUS* L.

Synonym of *CORYPHÆNA* L.

*Cæsius* Lacepède, III, 85, 1802; type *CÆSIO CÆRULEOAUREUS* Lacepède.

*Cæsiomorus* Lacepède, III, 92, 1802; type *CÆSIOMORUS BAILLONI* Lacepède.

Genus probably valid; equivalent to *GLAUCUS* Klein.

*Coris* Lacepède, III, 96, 1802; type *CORIS AYGULA* Lacepède.

*Gomphosus* Lacepède, III, 100, 1802; type *GOMPHOSUS CÆRULEUS* Lacepède.

*Naso* Lacepède, III, 105, 1802; type *CHÆTODON FRONTICORNIS* L.

Adopted from Commerson ms. Commerson writes *NASEUS*, but the form *NASO* occurs first. Identical with *MONOCEROS* Bloch & Schneider, the latter pre-occupied.

*Kyphosus* Lacepède, III, 114, 1802; type *KYPHOSUS BIGIBBUS* Lacepède.

*Osphronemus* Lacepède, III, 116, 1802; type *OSPHRONEMUS GOURAMY* Lacepède.

Written *OSPHEMENUS* by Günther.

*Trichopodus* Lacepède, III, 125, 1802; type *TRICHOPODUS MENTUM* Lacepède (*OSPHRONEMUS GOURAMY* Lacepède).

*Monodactylus* Lacepède, III, 131, 1802; type *MONODACTYLUS FALCIFORMIS* Lacepède.

Called *PSETTUS* by Commerson in ms. as quoted by Lacepède. Monotypic.

*Plectorhinchus* Lacepède, III, 134, 1802; type *PLECTORHINCHUS CHÆTODONOIDES* Lacepède.

Monotypic. Replaces *DIAGRAMMA* Cuvier.

*Pogonias* Lacepède, III, 137; type *POGONIAS FASCIATUS* Lacepède = *LABRUS CROMIS* Lacepède.

*Bostrychus* Lacepède, III, 144, 1802; type *BOSTRYCHUS SINENSIS* Lacepède.

Not *BOSTRICHUS* Geoffroy 1762, a genus of Insects. Replaced by *BOSTRICH-THYS* Duméril, 1806, by *PSILUS* Fischer, 1813, and by *ICTIOPOGON* Rafinesque, 1815.

*Bostrychoides* Lacepède, III, 144, 1802; type *BOSTRYCHOIDES OCULATUS* Lacepède.

Monotypic.

*Hemipteronotus* Lacepède, III, 214, 1802; type *HEMIPTERONOTUS QUINQUEMACULATUS* Lacepède (*CORYPHÆNA PENTADACTYLA* Gmelin).

**Coryphænoides** Lacepède, III, 219, 1802; type **CORYPHÆNOIDES HOUTTUYN** Lacepède (**CORYPHÆNA JAPONICA** Houttuyn).

Not **CORYPHÆNOIDES** Gunner. Replaced by **BRANCHIOSTEGUS** Rafinesque, 1815, which is earlier than **LATILUS** Cuvier & Val., 1830.

**Aspidophorus** Lacepède, III, 221, 1802; type **ASPIDOPHORUS ARMATUS** Lacepède (**COTTUS CATAPHRACTUS** Lacepède).

Equivalent to **AGONUS** Bloch & Schneider.

**Aspidophoroides** Lacepède, III, 227, 1802; type **ASPIDOPHOROIDES TRANQUEBAR** Lacepède (**AGONUS MONOPTERYGIUS** Bloch & Schneider).

**Scomberomorus** Lacepède, III, 292, 1802; type **SCOMBEROMORUS PLUMIERI** Lacepède (**SCOMBER REGALIS** Bloch).

**Centropodus** Lacepède, III, 303, 1802; type **SCOMBER RHOMBEUS** Forskål.

A synonym of **MONODACTYLUS** Lacepède.

**Centronotus** Lacepède, III, 309, 1802; type **CENTRONOTUS CONDUCTOR** Lacepède (**GASTEROSTEUS DUCTOR** Lacepède).

Not **CENTRONOTUS** Bloch & Schneider, 1801 (**PHOLIS** Scopoli). Replaced by **NAUCRATES** Rafinesque.

**Lepisacanthus** Lacepède, III, 320, 1802; type **LEPISACANTHUS JAPONICUS** Lacepède (**GASTEROSTEUS JAPONICUS** L.).

Equivalent to **MONOCENTRIS** Bloch & Schneider, 1801. Monotypic.

**Cephalacanthus** Lacepède, III, 323, 1802; type **GASTEROSTEUS SPINARELLA** L.

The young of some species of **DACTYLOPTERUS**. Monotypic.

**Dactylopterus** Lacepède, III, 325, 1802; type **DACTYLOPTERUS PIRAPEDA** Lacepède (**TRIGLA VOLITANS** L.).

Equivalent to **CEPHALACANTHUS** Lacepède.

**Prionotus** Lacepède, III, 336, 1802; type **PRIONOTUS EVOLANS** Lacepède. Monotypic.

**Peristedion** Lacepède, III, 368, 1802; type **PERISTEDION MALARMAT** Lacepède (**TRIGLA CATAPHRACTA** L.).

Monotypic.

**Istiophorus** Lacepède, III, 374, 1802; type **SCOMBER GLADIUS** Broussonet.

Monotypic. Spelled **HISTIOPHORUS** by Cuvier.

**Apogon** Lacepède, III, 411, 1802; type **APOGON RUBER** Lacepède (**MULUS IMBERBIS** L.).

Monotypic. Equivalent to **AMIA** Gronow.

**Macropodus** Lacepède, III, 416, 1802; type **MACROPODUS VIRIDIAURATUS** Lacepède.

Monotypic.

**Cheilinus** Lacepède, III, 529, 1802; type **CHEILINUS TRILOBATUS** Lacepède.

Monotypic.

**Cheilodipterus** Lacepède, III, 539, 1802; type **CHEILODIPTERUS LINEATUS** Lacepède = **CHEILODIPTERUS OCTOVITTATUS** Cuv. & Val., as restricted by Cuv. & Val.

**Hologymnosus** Lacepède, III, 556, 1802; type **HOLOGYMNOSUS FASCIATUS** Lacepède (**CORIS ANNULATUS** Lacepède, 1802).

Equivalent to **CORIS**.

**Ostorhinchus** Lacepède, IV, 23, 1803; type **OSTORHINCHUS FLEURIEU** Lacepède.

Monotypic; subgenus of **APOGON**.

**Dipterodon** Lacepède, IV, 165, 1803; type **DIPTERODON HEXACANTHUS** Lacepède.

A species of **APOGON**, as restricted by Jordan & Evermann, *Fishes North Mid. Amer.*, 1106. Not **DIPTERODON** Cuvier.

**Centropomus** Lacepède, IV, 248, 1803; type **SCIÆNA UNDECIMALIS** Bloch, by common consent, as restricted by Cuvier.

Originally a peculiarly confused jumble of species.

**Tænianotus** Lacepède, IV, 303, 1803; type **TÆNIONOTUS TRIACANTHUS** Lacepède, restricted by Cuv. & Val., *Hist. Poiss.*, IV, 371.

**Micropterus** Lacepède, IV, 324, 1803; type **MICROPTERUS DOLOMIEU** Lacepède.

Monotypic.

**Harpe** Lacepède, IV, 426, 1803; type **HARPE CÆRULEOAUREUS** Lacepède (**LABRUS RUFUS** L.).

A synonym of **BODIANUS** Bloch and of **HELOPS** Browne.

**Pimelepterus** Lacepède, IV, 429, 1803; type **PIMELEPTERUS BOSCI** Lacepède.

Monotypic. A synonym of **KYPHOSUS** Lacepède.

**Cheilio** Lacepède, IV, 432, 1803; type **CHEILIO AURATUS** Lacepède (**LABRUS INERMIS** Forskål).

**Pomatomus** Lacepède, IV, 435, 1803; type **POMATOMUS SKIB** Lacepède (**PERCA SALTATRIX** L.).

Monotypic. The name afterwards improperly transferred by Cuvier to a genus of **APOGONIDÆ**, **ERIGONUS** Rafinesque.

**Leiosomus** Lacepède, IV, 438, 1803; type **LEIOSOMUS XANTHURUS** Lacepède.

Monotypic.

**Centrolophus** Lacepède, IV, 441; type **PERCA NIGRA** L.

**Leiognathus** Lacepède, IV, 448; type **LEIOGNATHUS ARGENTEUS** Lacepède (**SCOMBER EDENTULUS** Bloch).

Monotypic. Prior to **EQUULA** Cuvier.

**Acanthinion** Lacepède, IV, 499, 1803; type **CHÆTODON RHOMBOIDES** L.  
Equivalent to **TRACHINOTUS**.

**Chætodipterus** Lacepède, IV, 503; type **CHÆTODIPTERUS PLUMIERI** Lacepède (**ZEUS FABER** Gmelin).

Monotypic.

**Pomacentrus** Lacepède, IV, 505, 1803; type **CHÆTODON PAVO** Bloch.

By general consent.

**Pomadasys** Lacepède, IV, 515, 1803; type **SCIÆNA ARGENTEA** Forskål.

Monotypic. Prior to **PRISTIPOMA** Cuvier.

**Pomacanthus** Lacepède, IV, 517, 1803; type **CHÆTODON ARCUATUS** L.,  
as restricted by Cuvier.

**Holacanthus** Lacepède, IV, 525, 1803; type **CHÆTODON TRICOLOR** L., as  
restricted by Cuvier.

**Enoplosus** (White) Lacepède, IV, 540, 1803; type **CHÆTODON ARMATUS**  
White.

Monotypic.

**Glyphisodon** Lacepède, IV, 542, 1803; type **GLYPHISODON MOUCHARRA**  
Lacepède (**CHÆTODON SAXATILIS** L.).

Equivalent to **ABUDEFDUF** Forskål. Usually written **GLYPHIDODON**.

**Aspisurus** Lacepède, IV, 556, 1803; type **CHÆTODON SOHAR** Forskål.

Monotypic. Equivalent to **ACANTHURUS** Forskål, **TEUTHIS** L.

**Acanthopodus** Lacepède, IV, 558, 1803; type **ACANTHOPODUS ARGENTEUS** Lacepède (**MONODACTYLUS FALCIFORMIS** Lacepède).

A synonym of **MONODACTYLUS**.

**Selene** Lacepède, IV, 560, 1803; type **SELENE ARGENTEA** Lacepède  
(**ZEUS VOMER** Cuvier).

**Argyreiosus** Lacepède, IV, 566, 1803; type **ZEUS VOMER** L.

Monotypic. A synonym of **SELENE**.

**Gallus** Lacepède, IV, 583, 1803; type **GALLUS VIRESCENS** Lacepède  
(**ZEUS GALLUS** L.).

Monotypic. Not **GALLUS** L., a genus of hens. Replaced by **ALECTIS** Rafinesque and **GALLICHTHYS** Cuvier.

**Chrysotosus** Lacepède, IV, 586, 1803; type ZEUS LUNA Gmelin.

A synonym of LAMPRI. Monotypic.

**Capros** Lacepède, IV, 590, 1803; type ZEUS APER L.

Monotypic.

**Achirus** Lacepède, IV, 658, 1803; type PLEURONECTES ACHIRUS L.

As fixed by Jordan & Gilbert, 1883. ACHIRUS FASCIATUS Lacepède was wrongly supposed to be identical with PLEURONECTES ACHIRUS L.

**Makaira** Lacepède, IV, 688, 1803; type MAKAIRA NIGRICANS Lacepède.

Monotypic. A synonym of ISTIOPHORUS.

**Cirrhitus** Lacepède, V, 2, 1803; type CIRRHITUS MACULATUS Lacepède.

Monotypic. Written CIRRHITES by Cuvier.

**Cheilodactylus** Lacepède, V, 5, 1803; type CHEILODACTYLUS FASCIATUS Lacepède.

Monotypic.

**Misgurnus** Lacepède, V, 16, 1803; type COBITIS FOSSILIS L.

Monotypic.

**Fundulus** Lacepède, V, 37, 1803; type FUNDULUS MUDFISH Lacepède (COBITIS HETEROCLITA Gmelin).

**Colubrina** Lacepède, V, 40, 1803; type COLUBRINA CHINENSIS Lacepède.

An unidentified Chinese painting, probably fictitious.

**Butyrinus** Lacepède, V, 45, 1803; type BUTYRINUS BANANA Lacepède (ESOX VULPES L.).

Equivalent to ALBULA of Gronow and of Schneider, not ALBULA Osbeck. Should apparently replace ALBULA Gronow.

**Tripteronotus** Lacepède, V, 47, 1803; type TRIPTERONOTUS HAUTIN Lacepède (SALMO LAVARETUS L.).

Mutilated example. Equivalent to COREGONUS L.

**Ompok** Lacepède, V, 49, 1803; type OMPOK SILUROIDES Lacepède.

Replaces CALlichrous Hamilton.

**Macropteronotus** Lacepède, V, 84, 1803; type MACROPTERONOTUS CHARMUTH Lacepède (SILURUS ANGUILLARIS L.).

Identical with CLARIAS Gronow.

**Malapterurus** Lacepède, V, 90, 1803; type SILURUS ELECTRICUS L.

Monotypic. A synonym of TORPEDO Forskål.

**Pimelodus** Lacepède, V, 93, 1803; type PIMELODUS MACULATUS Lacepède.

As restricted by Cuvier, Gill and authors.

**Doras** Lacepède, V, 116, 1803; type SILURUS CARINATUS L.

**Pogonathus** Lacepède, V, 120, 1803; type POGONATHUS COURBINA Lacepède.

Identical with POGONIAS Lacepède, 1802.

**Plotosus** Lacepède, V, 129, 1803; type **PLATYSTACUS ANGUILLARIS** Bloch (**SILURUS ANGUILLARIS** Forskål).

**Ageneiosus** Lacepède, V, 132, 1803; type **AGENEIOSUS ARMATUS** Lacepède (**SILURUS MILITARIS** L.).

**Macrorhamphosus** Lacepède, V, 136, 1803; type **SILURUS CORNUTUS** L.  
Equivalent to **CENTRISCUS** Cuvier, not of Linnæus.

**Centranodon** Lacepède, V, 138, 1803; type **CENTRANODON JAPONICUS** Lacepède (**SILURUS IMBERBIS** Houttuyn) = **CALLIONYMUS INDICUS** L.

Monotypic and unidentifiable, perhaps based on rough notes of **PLATYCEPHALUS**.

**Hypostomus** Lacepède, V, 144, 1803; type **HYPOSTOMUS GUACARI** Lacepède (**LORICARIA PLECOSTOMUS** L.).

Monotypic. Identical with **PLECOSTOMUS** Gronow.

**Corydoras** Lacepède, V, 147, 1803; type **CORYDORAS GEOFFROY** Lacepède (**CATAPHRACTUS PUNCTATUS** Bloch).

**Tachysurus** Lacepède, V, 150, 1803; type **TACHYSURUS SINENSIS** Lacepède.

A Chinese picture of some species of **ARIUS** Cuvier, which name it replaces, if identifiable.

**Osmerus** Lacepède, V, 229, 1803; type **SALMO EPERLANUS** L.

Equivalent to **OSMERI** L.

**Coregonus** Lacepède, V, 239, 1803; type **SALMO LAVARETUS** L.

Equivalent to **COREGONI** L.

**Characinus** Lacepède, V, 269, 1803; type **SALMO GIBBOSUS** L.

Equivalent to **CHARACINI** L. and to **CHARAX** Gronow, Scopoli.

**Serrasalmus** Lacepède, V, 283, 1803; type **SALMO RHOMBEUS** L.

Monotypic. Written **SERRASALMO** by Cuvier.

**Megalops** Lacepède, V, 289, 1803; type **MEGALOPS FILAMENTOSUS** Lacepède.

Monotypic.

**Lepisosteus** Lacepède, V, 331, 1803; type **LEPISOSTEUS GAVIALIS** Lacepède (**ESOX OSSEUS** L.).

Usually written **LEPIDOSTEUS**.

**Scomberesox** Lacepède, V, 344, 1803; type **SCOMBERESOX CAMPERI** Lacepède (**ESOX SAURUS** Walbaum).

Monotypic.

**Aulostomus** Lacepède, V, 356, 1803; type **AULOSTOMUS CHINENSIS** Lacepède (**FISTULARIA CHINENSIS** L.).

Monotypic. Usually written **AULOSTOMA**.



**Solenostomus** Lacepède, V, 360, 1803; type *FISTULARIA PARADOXA* Pallas.

Monotypic. Not *SOLENOSTOMUS* Gronow nor of Klein.

**Hydrargira** Lacepède, V, 378, 1803; type *HYDRARGIRA SWAMPINA* Lacepède (*FUNDULUS MAJALIS* Walbaum).

Usually written *HYDRARGYRA*. Monotypic. Not separable from *FUNDULUS*.

**Stolephorus** Lacepède, V, 381, 1803; type *ATHERINA JAPONICA* Houttuyn (*SPRATELLOIDES ARGYROTÆNIA* Bleeker).

Restriction of Jordan & Evermann, 1896.

The first species named by Lacepède, *ATHERINA JAPONICA* Houttuyn, was unknown to him, and very scantily and incorrectly described by its discoverer. Several authors—Bleeker, Jordan & Evermann—have assumed this species to be the type, and that it was congeneric with the second species named, from which Lacepède drew up his generic description and of which he gave a figure.

Study of the fauna of Nagasaki shows that no species of the modern genus *STOLEPHORUS* has been yet found there and that the *ATHERINA JAPONICA* of Houttuyn is most likely a description from rough notes or from memory of *SPRATELLOIDES ARGYROTÆNIA* Bleeker. *ATHERINA JAPONICA* was the first species to be formally named as type of *STOLEPHORUS*. It would have been more convenient to assume the one species known to Lacepède to be his type, reverting to the system of Bleeker, who first acted on this supposition but who named no type formally. In that case *STOLEPHORUS* would become the equivalent of *ANCHOVIELLA* Fowler, 1911. *MENIDIA* Browne, if available, would replace both. But it is necessary here as elsewhere to recognize the first formally stated type. If this is regarded as identifiable *STOLEPHORUS* replaces *SPRATELLOIDES*.

**Mugiloides** Lacepède, V, 393, 1803; type *MUGILOIDES CHILENSIS* Lacepède (*ESOX CHILENSIS* Molina).

Replaces *PINGUIPES* Cuv. & Val.

**Chanos** Lacepède, V, 395, 1803; type *CHANOS ARABICUS* Lacepède (*MUGIL CHANOS* L.).

Monotypic.

**Mugilomorus** Lacepède, V, 397, 1803; type *MUGILOMORUS ANNA-CAROLINA* Lacepède (*ELOPS SAURUS* L.).

Synonym of *ELOPS* L.

**Polydactylus** Lacepède, V, 419, 1803; type *POLYDACTYLUS PLUMIERI* Lacepède (*POLYNEMUS VIRGINICUS* L.).

As understood by us at present, a synonym of *POLYNEMUS* L.

**Buro** (Commerson) Lacepède, V, 421, 1803; type *BURO BRUNNEUS* Lacepède (*TEUTHIS HEXAGONATUS* Bleeker).

Monotypic. Same as *SIGANUS*.

**Mystus** Lacepède, V, 466, 1803; type *MYSTUS CLUPEOIDES* Lacepède (*CLUPEA MYSTUS* L.), a species of *COILIA* Gray.

The name *MYSTUS* is preoccupied.

**Clupanodon** Lacepède, V, 468, 1803; type *CLUPEA THRISSA* L.

As restricted by Rafinesque, 1815, through substitution for *CLUPANODON* the more euphonious name of *THRISSA*. The name *CLUPANODON* has been variously treated. It should properly replace *KONOSIRUS* Jordan & Snyder, although Lacepède's account of "*CLUPANODON THRISSA*" is taken mainly from the West Indian "Caillieu-Tassart," *OPHISTHONEMA OGLINUM* (Le Sueur), the *CLUPEA THRISSA* of Broussonet, but not of Linnæus.

**Mene** Lacepède, V, 479, 1803; type *MENE ANNA-CAROLINA* Lacepède (*ZEUS MACULATUS* Bloch), *MENE MACULATA* of authors.

Monotypic.

**Dorsuarius** Lacepède, V, 482, 1803; type *DORSUARIUS NIGRESCENS* Lacepède.

A species of *KYPHOSUS* Lacepède. Monotypic.

**Xyster** Lacepède, V, 484, 1803; type *XYSTER FUSCUS* Lacepède.

Equivalent to *KYPHOSUS*. Monotypic.

**Cyprinodon** Lacepède, V, 486, 1803; type *CYPRINODON VARIEGATUS* Lacepède.

Monotypic.

**Murænophis** Lacepède, V, 627, 1803; type *MURÆNA HELENA* Lacepède.

Equivalent to *MURÆNA* L.

**Gymnomuræna** Lacepède, V, 648, 1803; type *GYMNOMURÆNA DOLIATA* Lacepède.

As first restricted by Kaup, 1856. Bleeker and Günther have used *G. MARMORATA* Lacepède as type, thus replacing *UROPTERYGIUS* Rüppell. A synonym of *ECHIDNA*.

**Murænoblenna** Lacepède, V, 652, 1803; type *MURÆNOBLENNIA OLIVACEA* Lacepède.

A synonym of *MYXINE* L. Monotypic.

**Unibranchapertura** Lacepède, V, 656, 1803; type *SYMBRANCHUS MARMORATUS* Bloch.

A synonym of *SYMBRANCHUS*.

LVII. SEWASTIANOFF, *Acarauna, Piscium Thoracices*, 1796 (1802).

**Acarauna** Sewastianoff, 357; type *ACARAUNA LONGIROSTRIS* Sewastianoff (*GOMPHOSUS CÆRULEUS* Lacepède).

Equivalent to *GOMPHOSUS* Lacepède, and apparently of later date. Not seen by us.

LVIII. COMMERSON, *Lacepède, Histoire Naturelle des Poissons*, II, 1798; III, 1800; IV, V, 1803.

PHILIBERT COMMERSON.

Commerson was an active and accurate naturalist-explorer who collected mainly in the South Seas. His specimens were accompanied by manuscript names, polynomial in form. The author had a full grasp of the meaning of "genus," as he spoke sometimes of a "genus novissimum," XYSTER, for example. Many of his generic names were adopted by Lacepède and have found their way into the system. The others are here enumerated. These have been formally accepted as eligible by the International Commission (Opinions 23 and 24 as to *Antennarius* and *Aspro*). We think that this decision might well be reconsidered as Commerson was not "binomial" and his names were not adopted by the author who first printed them as synonyms.

*The names of Commerson may be ineligible as not binomial as to species and not accepted by the author who published them. Accepted provisionally by the International Commission.*

**Antennarius** Commerson, I, 327, 1798, footnote; type ANTENNARIUS BIVERTEX TOTUS ATER PUNCTO MEDIORUM, LATERUM ALBO Commerson (in foot-note) = LOPHIUS COMMERSONIANUS Lacepède.

Equivalent to CHIRONECTES Cuvier and ANTENNARIUS Cuvier. Regarded as eligible, in Opinion 24, International Commission.

**Alticus** Commerson, II, 458, 1800, footnote under BLENNIUS; type ALTICUS SALTATORIUS PINNA SPURIA IN CAPITE VERTICE, BLENNIUS SALIENS Lacepède.

Accepted by Jordan & Seale, *Fishes Samoa*, 421, 1806. Equivalent to RUPISCARTES Swainson. Cuv. & Val., XI, 337, 1836, adopted the name SALARIAS ALTICUS for the BLENNIUS SALIENS, "un petit SALARIAS qui nous paraît être celui-là même pour lequel Commerson a établi son genre, ALTICUS."

**Sciænus** Commerson, III, footnote under CARANXOMORUS; type SCIÆNUS EX FUSCO CÆRULESCENS: CARANXOMORUS SACRESTINUS Lacepède, LABRUS FURCATUS Lacepède.

Identical with APHAREUS Cuv. & Val., the name apparently a variant of SCIÆNA. Apparently ineligible.

**Naseus** Commerson, III, 105, under NASO; type NASEUS FRONTICORNIS FUSCUS Commerson (CHÆTODON FRONTICORNIS L.).

Equivalent to Naso Lacepède, NASEUS Cuv. & Val.

**Coryphus** Commerson, III, 1802, footnote under CORYPHÆNA; type CORYPHUS CHRYSURUS UNDIQUE DEAURATUS etc. Commerson, CORYPHÆNA CHRYSURUS Lacepède, CORYPHÆNA HIPPURUS L.

Same as CORYPHÆNA.

**Elops** Commerson, III, 100, 1802, footnote under GOMPHOSUS; type GOMPHOSUS TRICOLOR Lacepède.

Equivalent to ACARAUNA Sewastianoff or to GOMPHOSUS Lacepède.

**Psettus** Commerson, III, 1802, footnote under MONODACTYLUS; type PSETTUS SPINIS PINNARUM VENTRALIUM LOCO DUABUS Commerson (MONODACTYLUS FALCIFORMIS Lacepède).

Revived by Cuvier & Valenciennes. A synonym of MONODACTYLUS Lacepède. Not PSETTUS Klein.

**Odax** Commerson, III, 1802, footnote under SCARUS; type ODAX ODON Commerson = SCARUS CHADRI Lacepède = SCARUS NIGER Forskål.

Monotypic. Equivalent to CALLYODON Gronow. If the names of Commerson are accepted, ODAX Cuvier requires a new name.

**Mylio** Commerson, III, 131, 1802, footnote under SPARUS; type MYLIO LINEIS LONGITUDINALIBUS PLURIBUS Commerson Ms. = SPARUS MYLIO Lacepède = CHÆTODON BIFASCIATUS Bloch.

Equivalent to SPARUS L.

**Aspro** Commerson, IV, 273, 1803, footnote; type ASPRO DORSO DIPTERYGIO DENTIBUS RARIS, ET LONGIS ET EXSERTIS etc. Commerson Ms. = CHEILODIPTERUS MACRODON Lacepède, as restricted by Jordan, Opinion 23, *Zoological Nomenclature*, 56, 1910.

A synonym of CHEILODIPTERUS as now restricted. Not ASPRO Cuvier.

**Opisotomus** Commerson, IV, 1803, footnote.

We have been unable to find this name.

**Zanclus** Commerson, V, 1803, footnote under CHÆTODON (misprinted ZANCHUS); type ZANCLUS TRANSVERSE FASCIATUS Commerson Ms. = CHÆTODON CORNUTUS Bloch.

Monotypic. Revived by Cuvier & Valenciennes, VII, 102, 1831.

**Oculeus** Commerson, V, 289, 1803, footnote under MEGALOPS; type OCULEUS SEU MEGALOPS POSTREMO PINNÆ etc. Commerson (MEGALOPS CYPRINOIDES Lacepède).

Equivalent to MEGALOPS.

**Aulus** Commerson, V, 1803, footnote under FISTULARIA; type AULUS UROGNOMON etc., FISTULARIA TABACARIA L.

Equivalent to FISTULARIA.

**Encrasicholus** Commerson, V, 382, 1803, footnote under **CLUPEA**; type **ENCRASICHOLUS MANDIBULA INFERIORE BREVIORE, TÆNIA LATERALI ARGENTEA** Commerson (**CLUPEA VITTARGENTEA** Lacepède).

Equivalent to **ANCHOVIELLA** Fowler (**MENIDIA** Browne).

**Pterichthus** Commerson, V, 401, 1803, footnote under **EXOCÆTUS**; type "PTERICHTHUS PINNIS PECTORALIBUS RADIORUM SEXDECIM VENTRALIBUS INTRA CORPORIS ÆQUILIBRIUM NEQUIDEM AD ANUM APICE PERTINGENTIBUS."

As indicated by Lacepède, this species, the one placed first by Commerson, seems to be **EXOCÆTUS VOLITANS** L. A synonym of **EXOCÆTUS**.

**Halex** Commerson, V, 462, 1803, footnote under **CLUPEA**; type **HALEX CORPORE LATE CATHETEPLATEO** etc. Commerson, **CLUPEA FASCIATA** Lacepède, a species of **LEIOGNATHUS** Lacepède.

LIX. PLUMIER, *Lacepède, Histoire Naturelle des Poissons*, II, 1798; III, 1800; IV, V, 1803.

CHARLES PLUMIER.

Le Père Plumier, a missionary in Martinique, sent to Lacepède numerous paintings of fishes with descriptions and manuscript names. The generic names used rest on exactly the same basis as those of Commerson. As they were polynomial and as they were not accepted by the author who published them in synonymy, we think that they should not be considered eligible in scientific nomenclature, a matter which awaits final decision.

*The names probably not acceptable, as polynomial and as not adopted by the author who printed them.*

**Orbis** Plumier, II, 504, 1800, in footnote under **TETRAODON**; type **ORBIS MINIMUS** Plumier = **TETRAODON PLUMIERI** Lacepède = **TETRAODON SPENGLERI** Bloch.

A synonym of **TETRAODON**.

**Monoceros** Plumier, II, 1800, in footnote under **BALISTES**; type **MONOCEROS PISCIS CLUSII** Plumier.

Probably same as **MONACANTHUS CILIATUS** L. Equivalent to **MONOCANTHUS** Cuvier. Not **MONOCEROS** Zimmermann, 1780, a genus of Gasteropods; not **MONOCEROS** Bloch & Schneider, 1801.

**Asellus** Plumier, III, 1802, footnote under **GOBIMORUS**; type **ASELLUS PALUSTRIS** Plumier (**PLATYCEPHALUS DORMITATOR** Bloch & Schneider).

Identical with **GOBIMORUS** Lacepède, as restricted. **PHILYPNUS** Cuvier.

**Pelamis** Plumier, III, 1802, footnote under SCOMBEROIDES; type PELAMIS MINIMA, VULGO SAUTEUR Plumier (SCOMBER SALIENS Bloch).

Identical with OLIGOPLITES Gill. Not PELAMYS Klein.

**Trachurus** Plumier, III, 1802, footnote under CARANXOMORUS; type TRACHURUS MAXIMUS SQUAMIS MINUTISSIMIS Plumier = CARANXOMORUS PLUMIERIANUS Lacepède = SCOMBER TRACHURUS L.

As here restricted, the same as TRACHURUS Rafinesque, 1810.

**Scorpius** Plumier, III, 1802, footnote under SCORPÆNA; type SCORPIUS NIGER CORNUTUS Plumier (SCORPÆNA PLUMIERI Lacepède).

The name may be available for the subgenus of SCORPÆNA, having the breast scaly (PARASCORPÆNA Bleeker). In the European type of SCORPÆNA, SCORPÆNA PORCUS L., the breast is scaleless.

**Sarda** Plumier, III, 141, 1802, footnote under SPARUS; type SARDA CAUDA AUREA ET LUNATA Plumier (SPARUS CHRYSURUS Bloch).

Equivalent to OCYURUS Gill. Not SARDA Cuvier, which requires a new name if the generic names of Plumier are accepted. Monotypic.

**Erythrinus** (ERITRINUS) Plumier, IV, 347; type ERYTHRINUS POLYGRAMMOS, MARIGNAN APUD CARAIBAS Plumier (HONOCENTRUS SOGO Bloch).

A synonym of HOLOCENTRUS; name preoccupied. Elsewhere written ERITRINUS.

**Chrysomelanus** Plumier, IV, 160, 1803, footnote under SPARUS; type CHRYSOMELANUS PISCIS Plumier, SPARUS CHRYSOMELANUS Lacepède, ANTHIAS STRIATUS Bloch.

A synonym of EPINEPHELUS.

**Aper** Plumier, IV, 1803, footnote under SPARUS; type APER SEU TURDUS ERYTHRINUS, SQUAMIS AMPLIS Plumier (SPARUS ABILDGAARDI Lacepède).

A synonym of CALLYDON Gronow. Name preoccupied.

**Guaperva** Plumier, IV, footnote under SELENE; type GUAPERVA MARCGRAVII, VULGO LA LUNE Plumier (SELENE ARGENTEA Lacepède).

Identical with SELENE.

**Sargus** Plumier, IV, 166, footnote under DIPTERODON; type SARGUS EX AURO VIRGATUS Plumier (DIPTERODON PLUMIERI Lacepède = SPARUS SYNAGRIS L.

Same as NEOMÆNIS Girard. Not SARGUS Klein nor Cuvier. Not SARGUS Fabricius, about 1798, a genus of flies.

**Pagrus** Plumier, IV, 1803, footnote under BODIANUS; type PAGRUS LEUCOPHÆUS VULGO VIVANET GRIS APUD MARTINICAM Plumier = BODIANUS VIVANET Lacepède = LUTIANUS GRISEUS (L.).

Not PAGRUS Cuvier, 1817. Equivalent to NEOMÆNIS Girard; same as SALPA Catesby.

**Chromis** Plumier, III, 546, 1803, footnote under CHEILODIPTERUS; type CHROMIS SEU TEMBRA AUREO-CÆRULEA LITTURIS FUSCA VARIEGATA Plumier (CHEILODIPTERUS CYANOPTERUS Lacepède), the "grygry" or "grogro" of Martinique, UMBRINA COROIDES Cuv. & Val.

The name is older than UMBRINA, but later than CROMIS Browne. The specific name UMBRINA CYANOPTERA (Lacepède), based on Plumier's figure, must replace COROIDES and BROUSSONETI for this species.

**Cheloniger** Plumier, IV, 542, 1803, footnote under CHEILODIPTERUS; type CHELONIGER EX AURO ET ARGENTEO VIRGATUS Plumier (CHEILODIPTERUS CHRYSOPTERUS Lac. (PERCA NOBILIS L.).

The name CHELONIGER, if eligible, has priority over CONODON Cuvier.

**Cephalus** Plumier, V, 1803; type CEPHALUS AMERICANUS VULGO ATOULRI Plumier (MUGIL CEPHALUS L.).

A synonym of MUGIL L.

**Trichis** Plumier, V, 1803, footnote under CLUPEA ALOSA; type "TRICHIS BELLONII LA PUCELLE" Plumier.

Doubtful, but wrongly identified by Lacepède with CLUPEA ALOSA L.

**Acus** Plumier, V, 1803, footnote under SPHYRÆNA; type ACUS AMERICANA, ROSTRI LONGIORI Plumier (SPHYRÆNA ACUS Lacepède).

Same as SPHYRÆNA Röse, 1793.

LX. SHAW, *General Zoology, or Systematic Natural History*, vol. IV, 1803; vol. V, 1804.

GEORGE SHAW.

**Anguilla** Shaw, IV, 15, 1803; type ANGUILLA VULGARIS Shaw (MURÆNA ANGUILLA L.).

The name ANGUILLA has been ascribed to Thunberg, but we find no notice of its use as a generic term prior to Shaw.

**Vandellius** Shaw, IV, 199, 1803.

Needless substitute for LEPIDOPUS Gouan.

**Trichopus** Shaw, IV, 392, 1803; type TRICHOPUS PALLASI Shaw (LABRUS TRICHOPTERUS Pallas).

Equivalent to OSPHRONEMUS Lacepède.

**Cephalus** Shaw, V, 432, 1804; type DIODON MOLA L.

Equivalent to MOLA Cuvier. Not CEPHALUS Plumier.

**Trachichthys** Shaw, IV, 630, 1803; type TRACHICHTHYS AUSTRALIS Shaw.

**Spatularia** Shaw, V, 362, 1804; type SPATULARIA RETICULATA (SQUALUS SPATHULA Walbaum).

Synonym of POLYODON Lacepède.

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LXI. HERRMANN, *Observationes Zoologicae*, 1804.

JOHANN HERRMANN.

**Notistium** Herrmann, 305, 1804; type NOTISTIUM GLADIUS Herrmann.

Equivalent to ISTIOPHORUS Lacepède.

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LXII. GIORNA, *Mémoire Sur des Poissons d'Espèces Nouvelles et de genres nouveaux*: Mémoires de l'Académie Impériale de Torino, XVI, 1803-1808.

MICHEL ESPRIT GIORNA.

**Lophotes** Giorna, 19, 1805; type LOPHOTES CEPEDIANUS Giorna.

**Cœlorhynchus** Giorna, 18, 1805; type CÆLORHYNCHUS LA VILLE Giorna.

**Trachyrhynchus** Giorna, 18, 1805; type (not named) LEPIDOLEPRUS TRACHYRINCUS Risso, 1810.

An earlier paper of Giorna is quoted by Dean, *Mémoire sur cinq poissons dont deux sont d'espèces nouvelles . . . et les trois autres sont de nouveaux genres*: Mém. Acad. Imp. Torino. The date of this paper is variously given. The three genera above noted were not named. Giorna would not give the nomenclature until he heard from Lacepède, to whom he had sent descriptions and drawings. The two species indicated were RAIA GIORNA Lacepède and BALISTES BUNIVA Lacepède.

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LXIII. QUENSEL, *Forsäk at Narmäre Bestämma och naturligare Uppställa Svensk Arterna af Flunderslagte*: Kong. Vet. Akad. Nya Handlung, XXVII, 1806.

C. QUENSEL.

**Solea** Quensel, XXVII, 44, 203, 1806; type PLEURONECTES SOLEA L.



LXIV. DUMÉRIL, *Zoologie Analytique*, 1806.

ANDRÉ MARIE CONSTANT DUMÉRIL.

This work furnishes in the Index, pp. 342, 343, Latin equivalents for French vernacular names used by Lacepède, *Hist. Nat. Poiss.*, I, II, 1798, 1800. (Partly examined by us, some of the pages not verified).

**Squatina** Duméril, 102, 342; type (not named) *SQUATINA ANGELUS* Duméril (*SQUALUS SQUATINA* L.).

Equivalent to *RHINA* Klein.

**Torpedo** Duméril, 102, 343; type (not named) *RAJA TORPEDO* L.

Not *TORPEDO* Forskål. Same as *NARCACION* Klein. *NARCOBATIS* Blainville.

**Ovoides** (Lacepède) Duméril, 108, 342; type *L'OVOIDE FASCÉ*.

Based on a front view of *TETRAODON STELLATUS* L.

Equivalent to *OVOIDES* Cuvier and *OVUM* Bloch & Schneider.

**Aptericthys** Duméril, 112, 331; type *MURÆNA CÆCA* L.

Substitute for *CÆCILIA* Lacepède, preoccupied. A synonym of *SPHAGEBRANCHUS* Bloch.

**Bostrichthys** Duméril, 120, 332; type *BOSTRYCHUS SINENSIS* Lacepède.

Name a substitute for *BOSTRYCHUS*, preoccupied.

**Spheroides** (Lacepède) Duméril, 342; type "*LE SPHÉROIDE TUBERCULÉ*" Lacepède, 1798.

A front view of *TETRAODON SPENGLERI* Bloch. A synonym of *TETRAODON*, as restricted by Bleeker.

**Macrorhynchus** (Lacepède) Duméril, 342; type "*MACRORHYNQUE ARGENTÉE*" Lacepède (*SYNGNATHUS ARGENTEUS* Osbeck).

A species near *DICROTUS PROMETHEOIDES* Bleeker. Probably replaces *DICROTUS* Günther.

LXV. DUMÉRIL, *Dictionnaire des Sciences Naturelles*, 1806.

ANDRÉ MARIE CONSTANT DUMÉRIL.

**Torpedo** Duméril, pl. 21; type *RAJA TORPEDO* L.

Not *TORPEDO* Forskål, 1775; replaced by *NARCACION* Klein or by *NARCOBATIS* Blainville.

- LXVI. HUMBOLDT, *Ueber den Eremophilus und den Astroblepus, zwei neue Fisch-Gattungen*: *Observationes Zoologicae*, and in *Philos. Mag.*, XXIV, 1806.

ALEXANDER VON HUMBOLDT.

**Eremophilus** Humboldt, 17, 329; type *EREMOPHILUS MUTISII* Humboldt.

**Astroblepus** Humboldt, 19, 331; type *ASTROBLEPUS GRIXALVII* Humboldt.

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- LXVII. DUMÉRIL, *Dissertation sur les Poissons CYCLOSTOMES*, 1808.

ANDRÉ MARIE CONSTANT DUMÉRIL.

**Ammocœtus** Duméril; type *PETROMYZON PLANERI* L.

The larva of *LAMPETRA FLUVIATILIS* (L.) and of *PETROMYZON MARINUS* L. Preferably retained, under the usual spelling, *AMMOCÆTES*, as a designation for larval lampreys. Otherwise replaces *LAMPETRA* Gray, 1854; type *PETROMYZON FLUVIATILIS* L.

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- LXVIII. TILESIIUS, *Descriptions de quelques Poissons*: Krusenstern's *Reise um die Welt.*, *Mem. Soc. Nat. Moscow*, II, 1809.

W. G. VON TILESIIUS.

Not seen by us.

**Ericius** Tilesius, 213, 1809; type *ERICIUS (JAPONICUS)* Houttuyn).

A synonym of *MONOCENTRIS* Bloch & Schneider.

**Hexagrammos** (Steller) Tilesius, *Actæ Academ. Petropol.*, II, 335, 1809; type *HEXAGRAMMOS STELLERI* Tilesius (*HEXAGRAMMOS ASPER* Tilesius).

Often written *HEXAGRAMMUS*.

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- LXIX. GEOFFROY SAINT HILAIRE, *Poissons du Nil, de la Mer Rouge et de la Méditerranée*: in *Description de l'Égypte*, publiée par Napoléon le Grand, *Histoire Naturelle*, I, 1809-1827.

ÉTIENNE FRANÇOIS GEOFFROY SAINT HILAIRE.

In this huge folio a few species of fishes are described in great detail, with steel engravings. The work is in three parts, published in 1809,

1818, and 1825, respectively, the second and third parts being prepared by Isidore Geoffroy Saint Hilaire.

**Polypterus** Geoffroy St. Hilaire, I, 1809; type **POLYPTERUS BICHR** St. Hilaire.

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LXX. PALLAS, *Labraces novum piscium genus Oceani Orientalis*: Mem. Acad. Sci. Petersb., II, 1810.

PETER SIMON PALLAS.

**Labrax** Pallas, II, 382, 1810; type **LABRAX LAGOCEPHALUS** Pallas.  
Not of Klein nor of Cuvier. A synonym of **HEXAGRAMMOS** Steller.

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LXXI. RISSO, *Ichthyologie de Nice*, 1810.

ANASTASE RISSO.

**Cephalopterus** Risso, 14; type **RAJA GIORNA** Lacepède.

Not **CEPHALOPTERUS** of Geoffroy St. Hilaire, 1809, a genus of birds. Equivalent to **MOBULA** Rafinesque.

**Lepidoleprus** Risso, 197; type **LEPIDOLEPRUS TRACHYRHYNCHUS** Risso.  
A synonym of **TRACHYRHYNCHUS** Giorna.

**Tetragonurus** Risso, 347; type **TETRAGONURUS CUVIERI** Risso.

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LXXII. RAFINESQUE, *Caratteri di Alcuni Nuovi Generi e Nuove Specie di Animale e Piante della Sicilia*, April 1, 1810.

CONSTANTINE SAMUEL RAFINESQUE-SCHMALTZ  
(later written simply "RAFINESQUE").

**Carcharias** Rafinesque, 10; type **CARCHARIAS TAURUS** Rafinesque.

The intended type was **SQUALUS CARCHARIAS** L., but **C. TAURUS** is the only species actually mentioned. Monotypic. Replaces **ODONTASPIS** Agassiz. Not **CARCHARIAS** Cuvier, 1817.

**Dalatias** Rafinesque, 10; type **DALATIAS NOCTURNUS** Rafinesque.

Gray in 1851 restricted **DALATIAS** to **D. SPAROPHAGUS** Rafinesque. Swainson, 1838, formally restricted **DALATIAS** to **DALATIAS NOCTURNUS**, which seems to be a species of **CENTROPHORUS** Müller & Henle, probably **C. GRANULOSUS**.

**Tetroras** Rafinesque, 11; type **TETTORAS ANGIOVA** Rafinesque.

A second-hand and erroneous description, possibly referring to **CETORHINUS MAXIMUS**, but unrecognizable. Monotypic.

**Isurus** Rafinesque, 11; type **ISURUS OXYRHYNCHUS** Rafinesque.

Monotypic. Replaces **OXYRHINA** Agassiz.

**Cerictius** Rafinesque, 12; type **CERICTIUS MACROURUS** Rafinesque.

Apparently imaginary.

**Alopias** Rafinesque, 12; type **ALOPIAS MACROURUS** Rafinesque (**SQUALUS VULPINUS** Bonnaterre).

Monotypic.

**Heptranchias** Rafinesque, 13; type **SQUALUS CINEREUS** Gmelin.

Monotypic.

**Galeus** Rafinesque, 13; type **GALEUS MUSTELUS** L.

As restricted by Jordan & Evermann, 1896, after Leach, 1812. Later restricted to **PRISTIURUS MELASTOMUS** by Garman. Not **GALEUS** Valmont, nor **GALEUS** Cuvier.

Rafinesque describes one new species of **GALEUS**, **G. MELASTOMUS**, but refers in the text to **GALEUS CATULUS** and **GALEUS MUSTELUS**. Unless **GALEUS** Valmont holds, in place of **PRIONACE**, **GALEUS** becomes a synonym of **MUSTELUS** Linck.

**Hexanchus** Rafinesque, 14; type **SQUALUS GRISEUS** L.

Monotypic. Replaces **NOTIDANUS** Cuvier.

**Etmopterus** Rafinesque, 14; type **ETMOPTERUS ACULEATUS** Rafinesque.

Monotypic. Replaces **SPINAX** Cuvier.

**Rhina** Rafinesque, 14; type **SQUALUS SQUATINA** L.

Monotypic. Identical with **RHINA** Klein, and **SQUATINA** Duméril.

**Leiobatus** Rafinesque, 16; type **LEIOBATUS PANDURATUS** Rafinesque.

Monotypic. A synonym of **RHINOBATUS** Linck. Not **LEIOBATUS** Klein.

**Dipturus** Rafinesque, 16; type **RAJA BATIS** L.

Monotypic. Identical with **RAJA** L.

**Dasyatis** Rafinesque, 16; type **DASYATIS UJO** Rafinesque (**RAJA PASTINACA** L.).

Monotypic. Identical with **DASYBATUS** Klein and **TRYGON** Adanson.

**Orthragus** Rafinesque, 17; type **TETRAODON MOLA** L.

Monotypic. Equivalent to **MOLA** Kœlreuter.

**Diplanchias** Rafinesque, 17; type **DIPLANCHIAS NASUS** Rafinesque.

Monotypic. Equivalent to **MOLA**.

**Typhle** Rafinesque, 18; type **TYPHLE HEXAGONUS** Rafinesque (**SYNGNATHUS TYPHLE** L.).

Misspelled **TIPHLE**. Preoccupied by **TYPHLE** \* Lacepède, 1800, a genus of mammals. Replaced by **TYPHLINUS** Rafinesque, 1815, and by **SIPHONOSTOMUS** Kaup. Monotypic.

\* Under the head of **CÆCILIA**, Lacepède refers to its alleged blindness, a character almost unknown among vertebrates. "Parmi lesquels on ne connoît encore qu'un mammifère, nommé **TYPHLE**, et le genre des cartilagineux nommés **GASTROBRANCHES** qui aient paru complètement aveugles."

**Siphostoma** Rafinesque, 18; type *SYNGNATHUS PELAGICUS* L.

Monotypic. A synonym of *SYNGNATHUS* L. as the latter is now restricted.

**Hippocampus** Rafinesque, 18; type *SYNGNATHUS HIPPOCAMPUS* L.  
(*HIPPOCAMPUS HEPTAGONUS* Rafinesque).

**Oxyurus** Rafinesque, 19; type *OXYURUS VERMIFORMIS* Lacepède.

A larva, probably of *CONGER*.

**Scarcina** Rafinesque, 20; type *SCARCINA ARGYREA* Rafinesque.

A synonym of *LEPIDOPUS* Gouan.

**Luvarus** Rafinesque, 22; type *LUVARUS IMPERIALIS* Rafinesque.

Monotypic.

**Bothus** Rafinesque, 23; type, as restricted, *BOTHUS RUMOLO* Rafinesque  
(*PLEURONECTES RHOMBUS* L.).

Equivalent to *RHOMBUS* Klein, of earlier date.

**Corystion** Rafinesque, 24; type *CORYSTION MUSTAZOLA* Rafinesque.

Some species of *TRACHINUS* L. Monotypic.

**Merluccius** Rafinesque, 25; type *GADUS MERLUCIUS* L. (*MERLUCCIUS SMIRIDUS* Rafinesque).

Monotypic.

**Phycis** Rafinesque, 26; type *PHYCIS PUNCTATUS* Rafinesque.

Not *PHYCIS* Fabricius, 1798, a genus of Butterflies. Equivalent to *PHYCIS* Röse, 1793, which is not preoccupied.

**Oxycephas** Rafinesque, 31; type *OXYCEPHAS SCABRUS* Rafinesque.

A species of *TRACHYRHYNCHUS* Giorna, 1805. Monotypic.

**Lepimphis** Rafinesque, 33; type *LEPIMPHIS HIPPUROIDES* Rafinesque  
(*CORYPHÆNA HIPPURUS* L.).

Identical with *CORYPHÆNA*.

**Symphodus** Rafinesque, 41; type *SYMPHODUS FULVESCENS* Rafinesque  
= *LUTIANUS ROSTRATUS* Bloch = *LABRUS SCINA* Forskål.

Replaces *CORICUS* Cuvier.

**Trachurus** Rafinesque, 41; type *SCOMBER TRACHURUS* L. (*TRACHURUS SAURUS* Rafinesque).

By general usage and by tautonomy.

**Tricropterus** Rafinesque, 41; type by definition, *SCOMBER CARANGUS* Bloch (*SCOMBER HIPPOS* L.).

Not separable from *CARANX*; no species named.

**Hypodis** Rafinesque, 41; type *SCOMBER GLAUCUS* L.

Equivalent to *GLAUCUS* Klein; not separable from *CÆSIOMORUS* Lacepède.

**Centracanthus** Rafinesque, 42 (misprinted *CENTRACANTUS*); type *CENTRACANTUS CIRRUS* Rafinesque (*SMARIS INSIDIATOR* Cuv. & Val.).

Monotypic; probably a specimen with the dorsal fin torn. This seems to be generically different from *SPICARA* Rafinesque, *SMARIS* Cuvier. Afterwards spelled *CENTRACANTHA*.

**Hypacanthus** Rafinesque, 43 (misprinted *HYPACANTUS*); type "*SCOMBER ACULEATUS* L."

But there is no such species of Linnæus. Rafinesque elsewhere identifies it with *CENTRONOTUS VADIGO* Lacepède, which is the type of *CAMPTOGRAMMA* Regan, 1903. This name must be replaced by *HYPACANTHUS*.

**Naucrates** Rafinesque, 43; type *NAUCRATES FANFARUS* Rafinesque (*GASTEROSTEUS DUCTOR* L.).

Replaces *CENTRONOTUS* Lacepède, preoccupied.

**Notognidion** Rafinesque, 46; type *NOTOGNIDION SCIRENGA* Rafinesque. Unidentified. Monotypic.

**Spicara** Rafinesque, 51; type *SPICARA FLEXUOSA* Rafinesque (*SPARUS SMARIS* L.).

Equivalent to *SMARIS* Cuvier and having priority. Monotypic.

**Aylopon** Rafinesque, 52; type *LABRUS ANTHIAS* L.

A substitute for *ANTHIAS* Bloch, said to be preoccupied. We do not find it so.

**Lopharis** Rafinesque, 52; type *PERCA LOPHAR* Forskål.

Identical with *POMATOMUS* Lacepède. Monotypic.

**Lepterus** Rafinesque, 52; type *LEPTERUS FETULA* Rafinesque (*STROMATEUS FIATOLA* L.).

Identical with *STROMATEUS* L. Monotypic.

**Gonenion** Rafinesque, 53; type *GONENION SERRA* Rafinesque (*PERCA LOPHAR* Forskål).

Identical with *POMATOMUS* Lacepède. Monotypic.

**Lepodus** Rafinesque, 53; type *LEPODUS SARAGUS* Rafinesque (*SPARUS RAI* Bloch).

Monotypic. Equivalent to *BRAMA* Bloch & Schneider, not of Klein. Replaces *BRAMA* Cuvier, if Klein's names are eligible.

**Tetrapturus** Rafinesque, 54; type *TETRAPTURUS BELONE* Rafinesque.

**Argyctius** Rafinesque, 55; type *ARGYCTIUS QUADRIMACULATUS* Rafinesque.

Equivalent to *TRACHYPTERUS* Gouan.

**Tirus** Rafinesque, 56; type *TIRUS MARMORATUS* Rafinesque (*ESOX SYNODUS* L.).

Equivalent to *SYNODUS*.

**Lucius** Rafinesque, 59; type *ESOX LUCIUS* L. (*LUCIUS VORAX* Rafinesque).

The author attempts to limit the name *ESOX* to *ESOX BELONE* L., and its allies, an arrangement not accepted by the International Commission, (Opinion 58).

**Sudis** Rafinesque, 60; type *SUDIS HYALINA* Rafinesque.

Monotypic.

**Sayris** Rafinesque, 60; type SAYRIS RECURVIROSTRA Rafinesque (ESOX SAURUS Walbaum).

A needless substitute for SCOMBERESOX.

**Cogrus** Rafinesque, 62; type COGRUS MACULATUS Rafinesque.

COGRUS is a tenable subgenus of OPHICHTHUS.

**Piescephalus** Rafinesque, 63; type PIESCEPHALUS ADHERENS Rafinesque (LEPADOGASTER GOUANI Gouan).

A synonym of LEPADOGASTER Gouan.

**Echelus** Rafinesque, 63; type by first restriction (Bleeker, *Atlas Ichth., Muræn.*, p. 30) ECHELUS PUNCTATUS Rafinesque (MURÆNA MYRUS L.).

Identical with MYRUS Kaup, 1856. Restricted later by Jordan & Evermann to species of CONGER, but the earliest arrangement must hold.

**Nettastoma** Rafinesque, 66; type NETTASTOMA MELANURA Rafinesque. Monotypic.

**Dalophis** Rafinesque, 68; type DALOPHIS SERPA Rafinesque (SPHAGBRANCHUS IMBERBIS De la Roche, 1809).

Equivalent to CÆCULA Vahl.

LXXIII. RAFINESQUE, *Indice d'Ittiologia Siciliana*, May, 1810.

CONSTANTINE SAMUEL RAFINESQUE-SCHMALTZ.

**Onus** Rafinesque, 12; type ONUS RIALI Rafinesque (GADUS MERLUCCIUS L.).

A needless substitute for MERLUCCIUS.

**Merolepis** Rafinesque, 25; type SPARUS MASSILIENSIS Lacepède (SPARUS ZEBRA Brünnich).

Probably a genus distinct from MÆNA Cuvier.

**Gaidropsarus** Rafinesque, 11, 51; type GAIDROPSARUS MUSTELLARIS Rafinesque (GADUS MUSTELA L.).

Antedates MOTELLA Cuvier. Monotypic.

**Strinsia** Rafinesque, 12, 51; type STRINSIA TINCA Rafinesque. Monotypic.

**Symphurus** Rafinesque, 13, 52; type SYMPHURUS NIGRESCENS Rafinesque.

Antedates APHORISTIA Kaup, but not PLAGUSIA Browne.

**Solea** Rafinesque, 14, 52; type SOLEA BUGLOSSA Rafinesque (PLEURONECTES SOLEA L.).

Equivalent to SOLEA Quensel.

**Scophthalmus** Rafinesque, 14, 53; type **PLEURONECTES RHOMBUS** L.

As later restricted, identical with **BOTHUS** Rafinesque and **RHOMBUS** Klein. **SCOPHTHALMUS** is based on descriptions, **BOTHUS** on specimens of the same two species.

**Diplodus** Rafinesque, 26, 54; type **SPARUS ANNULARIS** L.

Equivalent to **SARGUS** Cuvier and prior, but not prior to **SARGUS** Klein.

**Octonus** Rafinesque, 29, 54; type **OCTONUS OLOSTEON** Rafinesque (**TRIGLA CATAPHRACTA** L.).

Monotypic. Equivalent to **PERISTEDION** Lacepède.

**Cephalepis** Rafinesque, 31, 54; type **CEPHALEPIS OCTOMACULATUS** Rafinesque.

A synonym of **REGALECUS** Ascanius. Monotypic.

**Myctophum** Rafinesque, 35, 56; type **MYCTOPHUM PUNCTATUM** Rafinesque.

**Nerophis** Rafinesque, 37, 57; type **SYNGNATHUS OPHIDION** L.

Monotypic.

**Carapus** Rafinesque, 37, 57; type **GYMNOTUS ACUS** L.

Prior to **FIERASFER** Cuvier. Not **CARAPUS** Cuvier = **GITON** Kaup.

**Sturio** Rafinesque, 41, 58; type **STURIO VULGARIS** Rafinesque (**ACIPENSER STURIO** L.).

**Capriscus** Rafinesque, 41, 58; type **CAPRISCUS PORCUS** Rafinesque (**BALISTES CAPRISCUS** Gmelin, "the third division of Lacepède").

Equivalent to **BALISTES** L.

**Chlopsis** Rafinesque, 42, 58; type **CHLOPSIS BICOLOR** Rafinesque.

Monotypic.

**Xypterus** Rafinesque, 43, 59; type **XYPTERUS IMPERATI** Rafinesque.

Apparently a synonym of **REGALECUS** Ascanius. Monotypic.

**Pterurus** Rafinesque, 43, 59; type **PTERURUS FLEXUOSUS** Rafinesque (**SPHAGEBRANCHUS IMBERBIS** De la Roche).

Name preoccupied: a synonym of **CÆCULA** Vahl.

**Oxynotus** Rafinesque, 45, 60; type **SQUALUS CENTRINA** L.

Prior to **CENTRINA** Cuvier, 1817.

**Sphyrna** Rafinesque, 46, 60; type **SQUALUS ZYGÆNA** L.

Prior to **ZYGÆNA** Cuvier.

**Torpedo** Rafinesque, 48, 60; type **TORPEDO OCELLATA** Rafinesque (**RAJA TORPEDO** L.).

Not **TORPEDO** Forskål.

**Mobula** Rafinesque, 48, 61; type **MOBULA AURICULATA** Rafinesque (**RAJA MOBULAR** Lacepède).

Same as **CEPHALOPTERUS** Risso, preoccupied.



**Cephal eutherus** Rafinesque, 48, 61; type *CEPHALEUTHERUS MACULATUS* Rafinesque.

Apparently a deformed *RAJA*. Monotypic.

**Uroxis** Rafinesque, 48, 61; type *UROXIS UJUS* Rafinesque (*RAJA PASTINACA* L.).

Monotypic. Equivalent to *DASYATIS* Rafinesque.

**Apterurus** Rafinesque, 48, 62; type *APTERURUS FABRONI* Rafinesque.

Equivalent to *MOBULA* Rafinesque.

**Oxystomus** Rafinesque, 49, 62; type *OXYSTOMUS HYALINUS* Rafinesque, larva of *OPHISURUS SERPENS* (L.).

A synonym of *OPHISURUS* Lacepède.

**Helmictis** Rafinesque, 49, 62; type *HELMICTIS PUNCTATUS* Rafinesque, 1810.

Probably a species of *CÆCULA*. Monotypic.

**Epigonus** Rafinesque, 64; type *EPIGONUS MACROPHTHALMUS* Rafinesque.

Equivalent to *POMATOMUS* Cuvier, not of Lacepède. Monotypic.

**Gonostoma** Rafinesque, 64; type *GONOSTOMA DENUDATUM* Rafinesque.

Monotypic.

**Merlangus** Rafinesque, 67; type *GADUS MERLUCIUS* L.

A needless substitute for *ONUS* and *MERLUCCIUS*.

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LXXIV. STELLER in *Tilesius*: Mem. Acad. Sci., Petersburg, 1811.

GEORG WILHELM STELLER.

**Myoxocephalus** Steller, in *Tilesius*, IV, 273; type *MYOXOCEPHALUS STELLERI* Tilesius.

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LXXV. PALLAS, *Zoographia Rosso-Asiatica*, III, 1811.

PETER SIMON PALLAS.

This important work was printed and partly distributed in 1811, the bulk of the edition being withheld until 1831.

**Phalangistes** Pallas, 113; type *COTTUS CATAPHRACTUS* L.

As restricted by Jordan & Evermann. Also written *PHALANGISTA*. Not *PHALANGISTA* Cuvier, 1800, a genus of mammals. Equivalent to *AGONUS* Lacepède.

**Elæorhois** Pallas, 122; type *CALLIONYMUS BAICALENSIS* Pallas.

A synonym of *COMEPHORUS* Lacepède.

**Gasteracanthus** Pallas, 228; type **GASTERACANTHUS CATAPHRACTUS** Pallas.

Equivalent to **GASTEROSTEUS** L.

**Coracinus** Pallas, 256; type **CORACINUS CHALCIS** Pallas (**SCIÆNA NIGRA** Bloch).

Equivalent to **CORVINA** Cuvier, 1829. Not **CORACINUS** Gronow, which is **DIPTERODON** Cuvier.

**Lebius** (Steller Ms.) Pallas, 279; type **LABRAX SUPERCILIOSUS** Pallas, "LEBIUS, CHIRUS VEL LABRAX Steller, Mss. Obs. Ichthyol."

These three names are indicated in Steller's unprinted manuscripts as words from which choice could be made.

**Chirus** (Steller Ms.) Pallas, 279; type **LABRAX SUPERCILIOSUS** Pallas.

Like the preceding synonym of **LABRAX** or **HEXAGRAMMOS**.

**Plagyodus** (Steller Ms.) Pallas, 383; type **PLAGYODUS** Steller (**ALEPISAUROS ÆSCULAPIUS** Bean).

Equivalent to **ALEPISAUROS** Lowe, 1833, the name used by Steller only in an oblique case, "PLAGYODONTEM" and without specific name.

LXXVI. LEACH, *Observations on the genus SQUALUS*, 1812.

WILLIAM E. LEACH.

**Mustelus** Leach, 62; type **SQUALUS MUSTELUS** L.

LXXVII. MONTAGU, *Wernerian Museum*, I, 1812.

GEORGE MONTAGU.

**Xipotheca** Montagu, I, 82; type **XIPOTHECA TETRADENS** Montagu = **LEPIDOPUS CAUDATUS** (Euphrasen).

A synonym of **LEPIDOPUS**.

LXXVIII. FISCHER, *Zoognosia, Tabulis Synopticus Illustrata*, Edition III, vol. I, 1813.

GOTTHELF FISCHER.

A series of Analytical Keys, leading to genera only.

**Histrio** Fischer, 70, 78; type (not named) **LOPHIUS HISTRIO** L., by tautonomy.

Diagnosis erroneous, by misprint "corpus depressum" instead of "corpus compressum." Has precedence over **PTEROPHYRNE** Gill and **PTEROPHYRNOIDES** Gill.

**Ogcocephalus** Fischer, 70, 78; type not named; evidently by definition,  
**LOPHIUS VESPERTILIO** L.

Replaces **MALTHE** Cuvier.

**Orbis** (Lacepède) Fischer, 70; no type named.

Said to be like **DIODON** but "ad minus 4 dentes in maxilla superiore." Evidently a misprint for "2 dentes." It is probably a synonym of **OVIDES** Cuvier, the presumable type being **TETRAODON LINEATUS** L., the "ORBIS" of Salviani and Rondelet.

**Odontolepis** Fischer, 71, 78; no type named.

A flounder with "pinnæ pectorales tenuissimæ aut nullæ, reliquis conjunctis." The type may be assumed as **SYMPHURUS NIGRESCENS**. A synonym of **SYMPHURUS** Rafinesque, 1810. Perhaps species of **MONOCHIRUS** or **MICROCHIRUS** were included.

**Psilus** Fischer, 74.

A substitute for **BOSTRYCHUS** Lacepède, which is preoccupied. Equivalent to **BOSTRICHTHYS** Duméril.

**Psiloides** Fischer, 74.

A needless substitute for **BOSTRYCHOIDES** Lacepède.

**Typhlotes** Fischer, 75.

A substitute for **CÆCILIA** Lacepède, preoccupied. A synonym of **SPHAGEBRANCHUS** Bloch.

**Mustellus** Fischer, 78; type (not named) **SQUALUS MUSTELUS** L.

A synonym of **MUSTELUS** Linck, not of Valmont.

LXXIX. FISCHER, *Recherches Zoologiques*: Mémoires de la Société Impériale des Naturalistes de Moscou, IV, second edition, 1813.

**Eleginus** Fischer, 252; type **GADUS NAVAGA** Kœlreuter.

Replaces **TILEsia** Swainson, 1839 (preoccupied) and **PLEUROGADUS** Bean, 1885. Not **ELEGINUS** Cuv. & Val., 1830, which becomes **ELEGINOPS** Gill.

LXXX. LEACH, *Zoological Miscellany*, 1814.

WILLIAM E. LEACH.

**Hippocampus** Leach, 103; type **SYNGNATHUS HIPPOCAMPUS** L. (**HIPPOCAMPUS ANTIQUORUM** Leach).

Same as **HIPPOCAMPUS** Rafinesque, 1810.

LXXXI. MITCHILL, *Report in Part on the Fishes of New York*, 1814.

SAMUEL LATHAM MITCHILL.

**Stomodon** Mitchill, 7; type STOMODON BILINEARIS Mitchill.

Equivalent to MERLUCCIUS Rafinesque.

**Morone** Mitchill, 18; type MORONE PALLIDA Mitchill (PERCA AMERICANA Gmelin).

As restricted by Gill, 1860.

**Tautoga** Mitchill, 23; type TAUTOGA NIGER Mitchill (LABRUS ONITIS L.).**Roccus** Mitchill, 25; type ROCCUS STRIATUS Mitchill (SCLÆNA LINEATA Bloch).

As restricted by Gill.

LXXXII. RAFINESQUE, *Descrizione di un Nuovo Genere di Pesce*:  
Specchio delle Scienze, Palermo, 1814.

CONSTANTINE SAMUEL RAFINESQUE.

**Leptopus** Rafinesque, I, 16; type LEPTOPUS PEREGRINUS Rafinesque.

Monotypic. Name preoccupied and later changed to PODOLEPTUS Rafinesque, 1815. Apparently a synonym of LOPHOTES Giorna.

LXXXIII. RAFINESQUE, *Descrizione di un Nuovo Genere di Pesce Siciliano*: Specchio delle Scienze, II, 1815.**Nemochirus** Rafinesque, II, 100, 105; type NEMOCHIRUS ERYTHROPTERUS Rafinesque.

Unrecognized.

The following is Rafinesque's account of this fish:

**NEMOCHIRUS.** Corpo lanceolato compressissimo ensiforme, fronte diagonale, bocca dentata, un' ala dorsale longitudinale senza raggi sciolti, ala caudale sciolta, nessun' ala anale, le due ale pettorali filiformi avvicinate e situate sotto la gola al posto delle ventrali.**NEMOCHIRUS ERYTHROPTERUS.** Corpo argentato, ale rosse, coda lunulata, con un raggio intermedio mucronato sciolto lunghissimo e filiforme, tre macchie fosche da ogni lato del dorso.**Descrizione.** Lunghezza totale due palmi, muso ottuso, mascella inferiore più corta con denti acuti, occhi piccoli neri, iride grande argentina con un cerchio rosso esteriore, opercolo doppio: corpo d'un bel colore argenteo, con tre macchie irregolari fosche di ogni lato del dorso, linea laterale dritta, ventre un poco reti-

colato. Ale pettorali rosse lineari-filiformi acute e con un solo raggio, ala dorsale rossa principiando sopra gli occhi e giungendo sino alla coda, della quale è però staccata e con circa 200 raggi molli: coda rossa un poco trifida o quasi lunulata con però il raggio intermedio semplice, sporgente lunghissimo, mentre i laterali sono ramosi con i rami opposti.

We are indebted to Mr. H. M. Scudder for a copy of this rare and forgotten description. If this account is correct it is still unknown to science, though having much in common with *STYLEPHORUS CORDATUS* Shaw.

LXXXIV. RAFINESQUE, *Précis des Découvertes Somnologiques*, 1814.

**Trisopterus** Rafinesque, 16; type *GADUS CAPELANUS* Lacepède (*GADUS MINUTUS* L.).

According to Risso the name is synonymous with *MORUA* Risso, and must be older. Equivalent to *BRACHYGADUS* Gill.

**Monochirus** Rafinesque; type *MONOCHIRUS HISPIDUS* Raf.

LXXXV. RAFINESQUE, *Analyse de la Nature, ou Tableau de l'Univers et des Corps Organisés* "La Nature est mon Guide et Linneus mon maître." Palermo, 1815.

In this work the entire animal and plant kingdoms are classified, with definitions of the families and higher groups and lists of the known genera. Three hundred and seventy-seven genera of fishes are enumerated. Many of these are bare names, without explanation of any sort. Others represent changes of names of genera for reasons not expressed, but apparently because current names were too long, too short, or involved a termination (*OIDES*, *OMORUS*) expressing resemblance. The fishes are divided into two subclasses, *HOLOBRANCHIA* with opercles and gill membranes complete, and *ATELOSIA*, lacking either opercles or gill membranes.

The *HOLOBRANCHIA* are divided into *DERIPIA* (Jugulares), *GASTRIPIA* (Abdominales), *THORAXIPIA* (Thoracices), *APODIA* (Apodes).

The *ATELOSIA* are divided into *ELTROPOMIA* (Sturgeons: *Sternoptyx*, *Pegasus*) with one opercle and no gill membrane; *CHISMOPNEA*, with gill-membranes and one opercle (*Chimæra*, *Balistes*, *Conger*, etc.); and *TREMAPNEA*, with neither opercles nor gill membranes (eels and sharks).

This classification is singularly inept.

**Dactyleptus** Rafinesque, 82.

Substitute for *MURÆNOIDES* Lacepède.

**Pholidus** Rafinesque, 82.

A synonym of *PHOLIS* Scopoli. Substitute for *ENCHELYOPUS* Gronow.

**Pteraclidus** Rafinesque, 82.

Substitute for *OLIGOPODUS* Lacepède. A synonym of *PTERACLIS* Gronow.

**Pacamus**, 82; *nomen nudum*.**Ictius**, 82, "sp. do."

That is, based on species of the preceding, i. e., *PACAMUS*.

**Dropsarus**, 82.

Evidently an emendation of *GAIDROPSARUS* Rafinesque.

**Trisopterus**, 82.**Brosme**, 82.**Batrictius**, 82.

A substitute for *BATRACHOIDES* Lacepède.

**Ceracantha**, 82.**Taunis**, 82.**Plagiusa**, 83, "sp. do."

That is, species of *PLEURONECTES*; apparently based on *PLEURONECTES PLAGIUSA* L., thus equivalent to *SYMPHURUS* Rafinesque, 1810.

**Holacantha**, 83.

Substitute for *HOLACANTHUS* Lacepède.

**Pomacantha**, 83.**Nasonus**, 83.

Substitute for *NASO* Lacepède.

**Alectis**, 84.

Substitute for *GALLUS* Lacepède, which is preoccupied, leaving *ALECTIS* as valid.

**Bostrictis**, 84.

Substitute for *BOSTRYCHUS* Lacepède: a synonym of *BOSTRICHTHYS* Duméril, 1806.

**Pterops**, 84, 90.

Substitute for *BOSTRYCHOIDES* Lacepède.

**Tasica**, 84.**Nemipus**, 84.**Cephalepis**, 84.**Gymnurus**, 84.

Substitute for *TÆNIODES* Lacepède.

**Polipturus, 84.**

Substitute for *SCOMBEROMORUS* Lacepède.

**Orcynus, 84.**

Substitute for *SCOMBEROIDES* Lacepède.

**Baillonus, 85.**

Substitute for *CÆSIOMORUS* Lacepède.

**Lepicantha, 85.**

Apparently shortened from *LEPISACANTHUS* Lacepède.

**Gastrogonus, 85.**

**Cephimmus, 85.**

Substitute for *GYMNOCEPHALUS* Bloch.

**Lepipterus, 85.**

**Panotus, 85.**

Substitute for *TÆNIONOTUS* Lacepède.

**Aylopon, 85.**

Substitute for *ANTHIAS* Bloch.

**Lopharis, 85.**

**Cephacandia, 85.**

Substitute for *CEPHALACANTHUS* Lacepède.

**"Gonurus Lac.," 85.**

Unexplained; no such name appears in Lacepède.

**Lepomus, 86.**

**Pomagonus, 86.**

**Mesopodus, 86.**

**Acaramus, 86.**

**Clodipterus, 86, also on 88.**

Substitute for *CHEILODIPTERUS* Lacepède.

**Macrolepis, 86, "sp. do."**

That is, of *APOGON* Lacepède.

**Guebucus, 86.**

**Micropodus, 86.**

Substitute for *CHEILIO* Lacepède.

**Megaphalus, 86.**

Substitute for *GOBIESOX* Lacepède.

**Pomacanthus, 86.**

**Oxima, 86.**

**Equetus, 86.**

Substitute for *EQUES* Bloch.

**Branchiostegus, 86.**

Substitute for *CORYPHÆNOIDES* Lacepède, not of Gunner. Replaces *LATILUS* Cuv. & Val., 1830.

**"Eleotris Gr., GOBIOMORUS Lacepède," 86.****Epiphthalmus, 86.**

Substitute for *GOBIOMOROIDES* Lacepède.

**Lepimphis, 86.****Plecopodus, 87.**

Substitute for *GOBIOIDES* Lacepède.

**Piescephalus, 87.****Lumpus, 87, "sp. do."**

That is, of *CYCLOPTERUS*.

**Liparius, 87, "sp. do."**

That is, of *CYCLOPTERUS*.

**Percis Scopoli, 87.**

Said to be same as *ASPIDOPHOROIDES* Lacepède.

**Aygula, 87.**

Substitute for *CORIS* Lacepède.

**Octonus, 88.****Gasterodon, 88.****Xysterus, 88.**

For *XYSER* Lacepède.

**Meneus, 88.**

For *MENE* Lacepède.

**Buronus, 88.**

For *BURO* Lacepède.

**Thrissa, 88.**

Substitute for *CLUPANODON* Lacepède.

**Megalops, 88.****Prinodon, 88.**

Substitute for *CYPRINODON* Lacepède.

**Maturacus, 88.****Edomus, 88.****Gonipus, 88.****Myxonum, 88.**

Substitute for *MUGILOIDES* Lacepède.

**Trichonotus, 88.**

Substitute for *MUGILOMORUS* Lacepède.



**Soranus**, 88.

**Cordorinus**, 89.

Substitute for *CORYDORAS* Lacepède.

**Amiatus**, 89.

Substitute for *AMIA* L. *AMIATUS* becomes eligible if *AMIA* Gronow be accepted instead of *APOGON*.

**Sayris**, 89.

Substitute for *SCOMBRESOX* Lacepède.

**Ramphistoma**, 89; "Raf. *BELONE* Gronow."

The word *BELONE* was not used in a generic sense by Gronow, but first by Cuvier in 1817. Rafinesque apparently refers to synonymy of the species as quoted from Gronow by Lacepède.\* This reference does not seem to justify the substitution of *RAMPHISTOMA* for *BELONE*.

**Odumphus**, 89.

**Onopionus**, 89.

**Guaris**, 90.

**Typhlinus**, 90, "sp. do."

That is, of *SYNGNATHUS*, earlier called *TYPHLE* by Rafinesque, which name is used by Lacepède for a "blind" genus of mammals, but without mention of type.

**Phyllophorus**, 90.

**Homolenus**, 90.

This and the two preceding are placed in the same family as *SYNGNATHUS*.

**Goniodermus**, 90, "sp. do."

Of *OSTRACION*.

**Cephalopsis**, 90, "sp. do."

Of *DIDON*.

**Orbidus**, 90.

For "*SPHEROIDE*" of Lacepède.

**Oonidus**, 90.

For "*OVOIDE*" of Lacepède.

**Tangus**, 91.

Said to be the same as "*HEPTACA*" Rafinesque.

**Piratia**, 91.

**Opictus**, 91.

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\*In the synonymy of *ESOX BELONE* Lacepède has this quotation:

"*Belone et raphis*, id est *acus*. Petri Artedi Synonymia Piscium etc., auctore J. G. Schneider, etc.

"Gronov. Mus. 1, n. 39. Zooph., p. 117, n. 362."

In a hasty reading, Rafinesque must have ascribed both sentences to Gronow, who apparently did not use the name *BELONE*.

**Ictiopogon**, 91.

Substitute for **BOSTRYCHUS** Lacepède, which is preoccupied.

**Dameus**, 91.

**Neleus**, 91.

**Nemochirus**, 91.

**Dipinotus**, 91.

**Symphocles**, 91.

This and the preceding are placed near **TRICHIURUS**.

**Melanictis**, 92.

**Epimonus**, 92, "sp. do."

That is, of **BALISTES**, doubtless intended for **MONACANTHUS**.

**Lophidius**, 92.

Variant of **LOPHIUS**.

**Chironectes**, "R", 92, "sp. do."

Of **LOPHIUS**.

**Conomus**, 92, "sp. do."

Of **LOPHIUS**.

**Branderius**, 93.

Substitute for **CÆCILIA** Lacepède, a synonym of **SPHAGEBRANCHUS** Bloch.

**Anopsus**, 93.

Substitute for **MURÆNOBLENNA** Lacepède.

**Gymnopsis**, 93.

Substitute for **GYMNOMURÆNA** Lacepède.

**Helmictis**, 93.

**Rincoxis**, 93.

**Zebricium**, 93.

**Pterurus**, 93.

**Sphyrnias**, 93.

Variant of **SPHYRNA** Rafinesque.

**Platopterus**, 93.

Substitute for **RAJA** L.

**Epinotus**, 93.

**Lymnea**, 93.

**Podoleptus**, 93.

Substitute for **LEPTOPUS** Rafinesque, 1814. A synonym of **LOPHOTES** Giorna.

**Megaderus**, 93.

Substitute for **ECHIDNA** Forster.

**Ictætus**, 93.

**Sephenia**, 93.

**Megabatus**, 93.

**Apturus**, 93.

**Lampreda**, 94, "sp. do."

Of PETROMYZON.

**Pricus**, 94, "sp. do."

Of PETROMYZON. This and the preceding doubtless equivalent to AMMO-CÆTES Duméril and LAMPETRA Gray, the former based on the larval state of lampreys.

LXXXVI. CUVIER, *Observations et Recherches Critiques sur differens Poissons de la Méditerranée, et à leur Occasion sur des Poissons d'autres mers plus ou moins Liés avec Eux*: Mémoires du Museum d'Histoire Naturelle, Paris, I, 1815.

GEORGES LÉOPOLD CHRÉTIEN FRÉDÉRIC DAGOBERT CUVIER.

**Glossodus** Cuvier, I, 1815; type ARGENTINA GLOSSODONTA Forskål.

Same as ALBULA Gronow, BUTYRINUS Lacepède.

**Fierasfer** Cuvier, I, 119, 312, 359, 1815; type OPHIDION IMBERBE L.

Same as CARAPUS Rafinesque. (Name in French only; dates from Oken, 1817.)

**Xyrichthys** Cuvier, I, 317, 329, 355, 1815; type XYRICHTHYS CULTRATUS Cuvier (CORYPHÆNA NOVACULA L.).

**Epibulus** Cuvier, I, 111; type SPARUS INSIDIATOR Pallas.

**Smaris** Cuvier, I, 111; type SPARUS SMARIS L.

**Myletes** Cuvier, I, 115; type MYLETES RHOMBOIDALIS Cuv.

**Saurus** Cuvier, I, 115; type SALMO SAURUS L.

**Chromis** Cuvier, 393; type SPARUS CHROMIS L.

Monotypic. Same as HELIASES Cuvier, 1817.

**Crenilabrus** Cuvier, 357; type LABRUS LAPINA Forskål (Les Crénilabres).

Bonaparte, in 1839, named as type C. PAVO, which is the same as C. LAPINA. Name in French only, dates from Oken, 1817.

**Corycus** Cuvier, 359; type (not otherwise named) LUTIANUS ROSTRATUS Bloch.

Based on "les deux derniers Lutjans de M. Risso." Called CORICUS by Cuvier in 1817. A synonym of SYMPHODUS Rafinesque.

**Tetragonopterus** Cuvier, I, 114; type T. ARGENTEUS Cuvier.

**Les Serrans** Cuvier.

This is not a scientific name. Reference is made to *ANTHIAS SACER* Bloch.

**DiaCOPE** Cuvier, 360; type *HOLOCENTRUS BENGALENSIS* Bloch.

Name preoccupied, replaced by *GENYORGE* Cantor, 1850.

**Diagramma** Cuvier, 360; type *ANTHIAS DIAGRAMMA* Bloch.

A synonym of *PLECTORHINCHUS* Lacepède.

**Scolopsis** Cuvier, 361; type the *CURITE* of Russell (*SCOLOPSIS CURITE* Cuvier).**Les Priacanthes** Cuvier, 361; type *ANTHIAS MACROPHthalmus* Bloch.

First called *PRIACANTHUS* by Cuvier in 1817.

**Les Pristipomes** Cuvier, 361; type *LUTIANUS HASTA* Bloch.

Called *PRISTIPOMUS* by Oken in 1817. A synonym of *POMADASYs* Lacepède.

**Julis** Cuvier, 362; type *LABRUS JULIS* L.

By tautonomy and by first restriction.

**Boops** Cuvier, 453; type *SPARUS BOOPS* L.

By tautonomy. Later called *Box* Cuvier.

The genus *SPARUS* L. is divided into *Sargues*, *SPARUS SARGUS* L.; *Daurades*, *SPARUS AURATA* L.; and *Pagres*, *SPARUS PAGRUS* L. No Latin names are indicated and no type assigned to *SPARUS* L. "*Les Canthères*" is a name assigned (p. 485) to *SPARUS CANTHARUS* L.

**Dentex** Cuvier, 486; type *SPARUS DENTEX* L.

By tautonomy,

**Les Melettes**, 457; type *CLUPEA BRÜNNICHI* Gmelin.

This group is equivalent to *ENGRAULIS* Cuvier, 1817. No Latin name is assigned.

On page 14 of this volume the name *SCIÆNA UMBRA* L., originally based on two species (the "*Maigre*" and the "*Corb*," confounded by Linnæus), is definitely restricted to the first of these, the *CHEILODIPTERUS AQUILA* of Lacepède. This species then becomes the type of *SCIÆNA*, replacing *ARGYROSOMUS DE LA PYLAIE* and *PSEUDOSCIÆNA* Bleeker. The "*Corb*" remains as *CORVINA NIGRA* (Bloch).

LXXXVII. BLAINVILLE, *Prodrome d'Une Nouvelle Distribution Systématique du Règne Animal*: *Bullétin de la Société Philomatique*, 1816.

HENRI MARIE DUCROTAY DE BLAINVILLE.

Descriptions of the genera indicated appeared also in the *Fauna Française*, 1820-1830.

The pagination as here given is taken from Garman, *Plagiostomia*, 1913.

**Trygonobatus** Blainville, 112; type *RAIA PASTINACA* L.

Equivalent to *DASYATIS* Rafinesque.

**Aetöbatus** Blainville, 112; type *RAJA NARINARI* Euphrasen.

As restricted by Müller & Henle, 1838; not as restricted by Cantor, 1850. The latter arrangement would accord better with Blainville's obvious purpose of making *RAJA AQUILA* his "*AETOBATIS VULGARIS*," the best known of these "raies aigles," his type. The first restriction, however, has the sanction of Agassiz, Günther, and Gill.

**Dicerobatus** Blainville, 116; type *RAJA MOBULAR* Lacepède.

A synonym of *MOBULA* Rafinesque. Monotypic.

**Leiobatus** Blainville, 121, "Raies lisses"; type *LEIOBATUS SLOANI* Blainville.

A species of *UROTRYGON*. Not *LEIOBATUS* Rafinesque, which is *RHINOBATUS*; nor *LEIOBATUS* Klein, a synonym of *RAJA*.

**Narcobatus** Blainville, 121; type *RAJA TORPEDO* L.

**Scylliorhinus** Blainville, 121, "*SQUALES ROUSSETTES*"; type *SQUALUS CANICULA* Lacepède.

As restricted. Prior to *SCYLLIUM* Cuvier.

**Cestrorhinus** Blainville, 121; type *SQUALUS ZYGÆNA* L.

A synonym of *CESTRACION* Klein and *SPHYRNA* Rafinesque.

**Monopterhinus** Blainville, 121, "*squales à une seule pinnule dorsale*"; type *SQUALUS GRISEUS* Gmelin.

A synonym of *HEXANCHUS* Rafinesque. Monotypic.

**Acanthorhinus** Blainville, 121, "*squales épineux*"; type *SQUALUS ACANTHIAS* Lacepède.

Equivalent to *SQUALUS* L. as restricted by Rafinesque and by Gill.

**Heterodontus** Blainville, 121; type *SQUALUS PHILIPPI* Lacepède.

The name seems sufficiently different from *HETERODON*, a genus of snakes of prior date, although from identical Greek roots. Otherwise would stand as *CENTRACION* Gray. Monotypic.

**Cetorhinus** Blainville, 121; type *SQUALUS MAXIMUS* Gunner.

Monotypic.

**Galeorhinus** Blainville, 121, "*Squales demi-Requins*"; type *SQUALUS CANIS* L.

As restricted by Gill, 1864; *SQUALUS MUSTELUS* as restricted by Garman, 1913. The former arrangement must hold, replacing *EUGALEUS* Gill.

**Carcharhinus** Blainville, 121; type *SQUALUS COMMERSONIANUS* Blainville.

As restricted by authors.

**Echinorhinus** Blainville, 121, "*Squales bouclés*"; type *SQUALUS SPINOSUS* Gmelin.

Monotypic.

**Trygon** Adanson in Cuvier, 136; type *RAJA PASTINACA* L.

This name, quoted from Adanson's Manuscript *Cours d'Histoire Naturelle*, in 1772, has been adopted by several authors. *TRYGON* appears also as a new genus (equivalent to *TÆNIURA*) of Geoffroy St. Hilaire in the *Histoire d'Égypte*, with the date of 1825. The name is certainly later than *DASYBATUS* of Klein, with the same type, and also later than *DASYATIS* Rafinesque.

**Callorhynchus** (Gronow) Cuvier, 140; type *CHIMÆRA CALLORHYNCHUS* L.

**Monacanthus** (Cuvier) Oken, 152, ("Les Monacanthes" Cuvier); type *BALISTES CHINENSIS* Bloch.

**Alutera** (Cuvier) Oken, 153, ("Les Alutères" Cuvier); type *BALISTES MONOCEROS* L.

**Triacanthus** (Cuvier) Oken, 153, ("Les Triacanthes" Cuvier); type *BALISTES BIACULEATUS* Bloch.

Monotypic.

**Hippocampus** Cuvier, 157; type *SYNGNATHUS HIPPOCAMPUS* L.

Equivalent to *HIPPOCAMPUS* Rafinesque.

**Characinus** Cuvier, 164; no type named.

Equivalent to *CHARACINI* L., *CHARAX* Gronow.

**Curimatus** (Cuvier) Oken, 165, ("Les Curimates" Cuvier); type *SALMO EDENTULUS* Bloch (*SALMO CYPRINOIDES* L.).

Name latinized as *CURIMATUS* Oken, 1182, as *CURIMATA* by Cloquet. Equivalent to *CURIMATA* Walbaum, 1792.

**Anostomus** (Gronow) Cuvier, 165; type *SALMO ANOSTOMUS* L.

Called *LEPORINUS* by Cuvier & Valenciennes.

**Piabucus** (Cuvier) Oken, 166, ("Les Piabuques" Cuvier); type *SALMO ARGENTINUS* Bloch.

Latinized as *PIABUCUS* by Oken, as *PIABUCA* by Müller & Tröschel.

**Citharinus** Cuvier, 168; type "*LE SERRASALME CITHARINE*" Geoffroy.

*CYTHARINUS* Oken, 1182, ("Les Citharines" Cuvier, 1815, I. 115).

**Saurus** Cuvier, 169; type *SALMO SAURUS* L.

**Scopelus** Cuvier, 169; type *GASTEROPELECUS HUMBOLDTI* Risso.

Equivalent to *MYCTOPHUM* Rafinesque, 1810.

**Aulopus** Cuvier, 170; type *SALMO FILAMENTOSUS* Bloch.

**Engraulis** Cuvier, 174; type *CLUPEA ENCRASICHOLUS* L.

**Thriassa** Cuvier, 176; type *CLUPEA SETIROSTRIS* Broussonet.

Equivalent to *MYSTUS* Lacepède, preoccupied. Not *THRISSA* Rafinesque. Later spelled *THRYSSA* by Cuvier.

This genus or subgenus may receive a new name, *THRISSOCLES* Jordan & Evermann, type *CLUPEA SETIROSTRIS* Broussonet. It is distinguished from *MENIDIA* Browne or *ANCHOVIELLA* Fowler, by the greatly prolonged maxillary.

**Pristigaster** Cuvier, 176; type not named.

Later fixed as *PRISTIGASTER CAYANUS* Cuvier.

**Chirocentrus** Cuvier, 178; type *ESOX CHIROCENTRUS* L. (*CLUPEA DORAB* Gmelin).

**Sudis** Cuvier, 180; type (not named) *SUDIS GIGAS* Cuvier.

Equivalent to *ARAPAIMA* Müller and Troschel, 1846 (*VASTRES Valenciennes*, 1846).

Not *SUDIS Rafinesque*, 1810.

**Galaxias** Cuvier, 183; type *ESOX TRUTTACEUS* Cuvier.

Monotypic.

**Microstoma** Cuvier, 184; type *GASTEROPELECUS MICROSTOMUS* Risso.

Monotypic.

**Stomias** Cuvier, 184; type *ESOX BOA* Risso.

Monotypic.

**Salanx** Cuvier, 185; type (not named) *SALANX REEVESI* Cuv. & Val. (*ALBULA CHINENSIS* Osbeck).

Monotypic. Synonym of *ALBULA* Osbeck, if the latter name is regarded as eligible.

**Belone** Cuvier, 185; type *ESOX BELONE* L.

**Hemi-Ramphus** Cuvier, 186; type *ESOX BRASILIENSIS* L.

**Barbus** Cuvier, 192; type *CYPRINUS BARBUS* L.

**Gobio** Cuvier, 193; type *CYPRINUS GOBIO* L.

Not *GOBIO* of Klein, which is identical with *GOBIUS* L. If Klein's names are accepted, *GOBIO* Cuvier, based on the common gudgeon of Europe, *CYPRINUS GOBIO* L., must receive a new name.

**Tinca** Cuvier, 193; type *CYPRINUS TINCA* L.

**Cirrhinus** (Cuvier) Oken, 193, ("Les Cirrhines" Cuvier); type *CYPRINUS CIRRHOSUS* Bloch.

The name is spelled *CIRRHINA* by Valenciennes.

**Abramis** Cuvier, 194; type *CYPRINUS BRAMA* L.

Equivalent to *BRAMA* Klein, not of Cuvier.

**Labeo** Cuvier, 194; type *CYPRINUS NILOTICUS* (Forskål) Geoffroy.

Not *LABEO* Bowdich, 1825.

**Leuciscus** (Klein) Cuvier, 194; type *CYPRINUS LEUCISCUS* (L.) Bloch.

Identical with *LEUCISCUS* Klein.

**Lebia** (Cuvier) Oken, 199, ("Les Lebias" Cuvier), Oken, *Isis*, 1183; type *CYPRINODON VARIEGATUS* Lacepède.

Monotypic. Identical with *CYPRINODON* Lacepède, 1803. Written *LEBIAS* by Cuvier.

**Schilbe** (Cuvier) Oken, 202, ("Les Schilbe" Cuvier), Oken, *Isis*, 1182; type *SILURUS MYSTUS* Hasselquist.

**Synodontis** Cuvier, 203; type *PIMELODUS SYNODONTIS* Geoffroy.

**Bagre** (Cuvier) Oken, 204, ("Les Bagres" Cuvier), Oken, *Isis*, 1182; type *SILURUS BAGRE* L.

By tautonomy. Latinized as *BAGRUS* by Valenciennes. This generic name must replace *FELICHTHYS* Swainson and *AILURICHTHYS* Baird, for the Gaff-top-sail Cat-fish *FELICHTHYS MARINUS* (L), of American waters, unless the earlier name *BAGRE* of Catesby, applied to another genus, be deemed eligible. The name *BAGRUS*, transferred by Cuvier & Valenciennes to another part of the same group of "Bagres," may be replaced by *PORCUS* Geoffroy, 1817, as *BAGRUS* is only a variant spelling of *BAGRE*.

**Morrhua** (Cuvier) Oken, ("Les Morues"), 212, 1182; type *GADUS MORRHUA* L.

Same as *GADUS* L.

**Merlangus** (Cuvier) Oken, ("Les Merlans"), 213, 1182; type *GADUS MERLANGUS* L.

Not *MERLANGUS* Rafinesque, 1810.

**Lota** (Cuvier), ("Les Lottes") Oken, 215, 1182; type *GADUS LOTA* Bloch.

By tautonomy.

**Mustela** (Cuvier), ("Les Mustèles") Oken, 215, 1182; type *GADUS MUSTELA* L.

Preoccupied in Mammals: replaced by *MOTELLA* Cuvier, 1829. Synonym of *GAIDROPSARUS* Raf.

**Brosme** (Cuvier), ("Les Brosmes") Oken, 216, 1182; type *GADUS BROSME* Gmelin.

Called *BROSMIUS* by Cuvier, 1829.

**Raniceps** (Cuvier) Oken, 217, ("Les Raniceps" Cuvier), Oken, 1182; type *GADUS RANINUS* Müller.

**Platessa** Cuvier, 220; type *PLEURONECTES PLATESSA* L.

Equivalent to *PLEURONECTES* as restricted by Fleming.

**Hippoglossus** Cuvier, 221; type *PLEURONECTES HIPPOGLOSSUS* L.

**Rhombus** Cuvier, 222; type *PLEURONECTES RHOMBUS* Cuvier.

Equivalent to *RHOMBUS* Klein, not of Lacepède. Name used in Mollusks, *RHOMBUS* Da Costa, 1776. Same as *BOTHUS* Rafinesque.

**Solea** Cuvier, 223; type *PLEURONECTES SOLEA* L.

Equivalent to *SOLEA* Quensel and *SOLEA* Rafinesque.

**Monochirus** (Cuvier) Oken, 223, ("Les Monochires" Cuvier), *MONOCHIRUS* Oken, 1182; type *PLEURONECTES MICROCHIRUS* De la Roche.

Monotypic. Equivalent to Rafinesque.



**Plagusia** (Browne) Cuvier, 224; type *PLEURONECTES PLAGUSIA* L.

Equivalent to *PLAGUSIA* Browne, not of Latreille, 1806, a genus of CRUSTACEANS.

**Lumpus** (Cuvier) Oken, 226, ("Les Lumps" Cuvier) Oken, 1182; type *CYCLOPTERUS LUMPUS* L.

Equivalent to *CYCLOPTERUS* L.

**Conger** (Cuvier) Oken, 231, ("Les Congres" Cuvier), Oken, 1182; type *MURÆNA CONGER* L.

Equivalent to *CONGER* Houttuyn.

**Alabes** (Cuvier) Oken, 235, ("Les Alabes" Cuvier), Oken, 1182; type (not named) *CHEILOBRANCHUS DORSALIS* Richardson.

Said to be identical with *CHEILOBRANCHUS* Richardson, 1848, which it replaces.

**Carapus** Cuvier, 237; type *GYMNOTUS MACROURUS* Bloch.

Not *CARAPUS* Rafinesque, 1810. The name is written *CARAPO* by Oken. Replaced by *GITON* Kaup.

**Fierasfer** (Cuvier) Oken, 239, ("Les Fierasfers" Cuvier) Oken, 1182; type *OPHIDIUM IMBERBE* L.

Equivalent to *CARAPUS* Rafinesque, 1810. Monotypic.

**Lophotes** (Giorna) Cuvier, 243, ("Les Lophotes" Cuvier), the name written *LOPHOTUS* by Oken, 1182; type "le Lophote Lacepède" Giorna (*LOPHOTES CEPEDIANUS*).

Monotypic.

**Clinus** Cuvier, 251; type *BLENNIUS SUPERCILIOSUS* L.

**Pholis** (Artedi) Cuvier, 251; type *BLENNIUS PHOLIS* Bloch.

Not *PHOLIS* Gronow.

**Salarias** Cuvier, 251; type *SALARIAS QUADRIENNIS* Cuvier.

**Opisthognathus** (Cuvier) Oken, 252, ("Les Opisthognathes" Cuvier), Oken, 1182; type *OPISTHOGNATHUS SONNERATI* Cuvier.

Monotypic.

**Sillago** Cuvier, 258; type *SILLAGO ACUTA* Cuvier.

**Julis** Cuvier, 261; type *LABRUS JULIS* L.

This name has been unfortunately transferred by later writers to a great group of the tropical seas, *THALASSOMA* Swainson.

**Crenilabrus** Cuvier, 262, ("Les Crenilabres" Cuvier), Oken, 1182; type *LABRUS LAPINA* Forskål.

Valenciennes makes the type *LABRUS PAVO* Risso; but that species is not mentioned by Cuvier, although identical with *L. LAPINA*.

Bonaparte, in 1839, named as type *C. PAVO*, which is the same as *C. LAPINA*. In 1839, just previous, Swainson observes: "M. Cuvier having expressly stated

that the type of his genus *CRENILABRUS* is the *LUTJANUS VERRES* of Bloch, I have so retained it, placing all the others under the subgenus *CYNÆDUS*."

*L. VERRES* is identical with the type of *BODIANUS* Bloch. We find no such statement in Cuvier's writings, and *L. VERRES* is ninth of his original species. *CYNÆDUS* Swainson, as restricted by Bonaparte, is identical with *CTENOLABRUS* Cuv. & Val.

In the *Fauna Italica*, 156, 1839, Bonaparte assigned types to certain genera of Labroid fishes. *LABRUS GUTTATUS* Bloch was indicated as type of *HEMIULIS* Swainson; *LABRUS VETULUS* Bloch is considered as type of *LABRUS* L. This name, *VETULUS*, was not used by Linnæus, but it is a synonym of *LABRUS BIMACULATUS* L. and *LABRUS MIXTUS* L. *LABRUS BIMACULATUS* may thus be regarded as the type of *LABRUS*. *LABRUS RUPESTRIS* Bloch is indicated as type of *CYNÆDUS* Swainson. This becomes a synonym of *CTENOLABRUS* Cuv. & Val., of a little earlier date in 1839. *LABRUS PAVO* of authors, not of Linnæus, is recognized by Bonaparte as type of *CRENILABRUS*. This species is not named by Cuvier, but it is identical with *LABRUS LAPINA* Forskål, a species included by Cuvier. In Swain's excellent review of Swainson (1882) the type of each genus is indicated. The type of *HEMIULIS* (*AURATUS*) assigned by Swain is a species of *CHEILIO* Lacepède. The type of *CYNÆDUS* is *C. TINCA* = *C. DODERLEINI* Jordan, not *LABRUS TINCA* L., a species of *CRENILABRUS*. Bonaparte's selection of types has, however, priority over Swain's. Bonaparte and Swainson recognize *LABRUS JULIS* L. as type of *JULIS*. The same type, as *LABRUS PAVO* Hasselquist, is assigned to *CHLORICHTHYS* Swainson by Bonaparte. Swain makes the latter a synonym of *THALASSOMA* Swainson. Bonaparte, 1846, selected *L. JULIS* L. as type of *ICHTHYCALLUS* Swainson, reducing both *CHLORICHTHYS* and *ICHTHYCALLUS* to the synonymy of *JULIS*.

**Coricus** Cuvier, 263; type *LUTIANUS VIRESCENS* Risso (*L. ROSTRATUS* Bloch).

Equivalent to *SYMPHODUS* Rafinesque.

**Epibulus** Cuvier, 264; type *SPARUS INSIDIATOR* Pallas.

Monotypic.

**Novacula** Cuvier, 265; type *CORYPHÆNA NOVACULA* L.

By tautonomy. Afterwards restricted by Cuvier & Valenciennes to *CORYPHÆNA PENTADACTYLA* Lacepède, the genus *HEMIPTERONOTUS* Lacepède.

A synonym of *XYRICHTHYS* Cuvier, 1815.

**Chromis** (Cuvier) Oken, 266, ("Les Chromis" Cuvier), Oken, 1182; type *SPARUS CHROMIS* Lacepède.

Not *CROMIS* Browne, 1770, nor *CHROMIS* Cuvier, 1815. Called *HELIASES* by Cuvier & Valenciennes.

**Plesiops** (Cuvier) Oken, 266; type not named.

Afterwards described as *PLESIOPS NIGRICANS* Rüppell. Equivalent to *PHAROTERYX* Rüppell, 1828.

**Smaris** Cuvier, 269; type *SPARUS SMARIS* L.

A synonym of *SPICARA* Rafinesque.

**Boops** Cuvier, 270; type *SPARUS BOOPS* L.

Later called *Box* Cuv. & Val.

**Sargus** Cuvier, 272; type *SPARUS SARGUS* L.

Equivalent to *SARGUS* Klein and *DIPLODUS* Rafinesque.

**Aurata** (Cuvier) Oken, 272, ("Les Daurades" Cuvier), Oken, 1183; type SPARUS AURATA L.

Equivalent to SPARUS L., as restricted by Fleming. Later called CHRYSOPHRYS by Cuvier.

**Pagrus** Cuvier, 272; type SPARUS ARGENTEUS Bloch & Schneider (SPARUS PAGRUS L.).

Not PAGRUS Plumier.

**Dentex** Cuvier, 273; type SPARUS DENTEX L.

**Diacope** Cuvier, 275; type DIACOPE SEBÆ Cuvier.

Name preoccupied in butterflies (DIACOPE Hübner, 1816); replaced by GENYORGE Cantor, 1850. Equivalent to NAQUA Forskål, 1775, a name doubtfully eligible.

**Serranus** Cuvier, 276, ("Perche de mer ou serran"); type PERCA CABRILLA L. ("le Serran proprement dit").

SERRANUS CABRILLA is usually assumed as the type of the genus SERRANUS, and therefore of the family SERRANIDÆ. But no species of the genus as thus restricted is mentioned by Cuvier by scientific name. Cuvier, however, remarks: "La Méditerranée en produit beaucoup dont les plus communs s'y confondent sous les noms vulgaires de PERCHE DE MER, de SERRAN, etc." This refers to SERRANUS CABRILLA and SERRANUS SCRIBA. The first of these may be retained as type, following general custom, although its scientific name is not mentioned. Otherwise HOLOCENTRUS GIGAS Bloch & Schneider, which is explicitly mentioned, must be taken, in which case SERRANUS disappears, as a synonym of EPINEPHELUS Bloch, and the name SERRANELLUS Jordan & Eigenmann, a sub-generic term for SERRANUS SCRIBA, would stand for the genus, as in Fowler's arrangement (Proc. Ac. Nat. Sci. Phila., 1907, 266).

**Plectropomus** (Cuvier) Oken, 277, ("Les Plectropomes" Cuvier), PLECTROPOMUS Oken, 1182, PLECTROPOMA of Cuv. & Val.; type as restricted BODIANUS MACULATUS Bloch.

**Cantharus** Cuvier, 278; type SPARUS CANTHARUS L. ("Les Canthares," 1815.)

Name preoccupied; replaced by SPONDYLIOSOMA Cantor, 1850.

**Pristipomus** (Cuvier) Oken, 279, ("Les Pristipomes" Cuvier), Oken, 1182, (PRISTIPOMA of Cuvier & Valenciennes); type LUTJANUS HASTA Bloch.

Equivalent to POMADASYS Lacepède.

**Scolopsis** Cuvier, 280; type "le Kurite, Russell" (SCOLOPSIDES KURITA Cuv. & Val.).

Called SCOLOPSIDES by Cuvier.

**Diagramma** (Cuvier) Oken, 280, ("Les Diagrammes" Cuvier), Oken, 1183; type ANTHIAS DIAGRAMMA Bloch.

Equivalent to PLECTORHYNCHUS Lacepède.

**Priacanthus** (Cuvier) Oken, 281, ("Les Priacanthes" Cuvier), Oken, 1183; type *ANTHIAS MACROPHthalmus* Bloch.

Equivalent to *ABUHAMRUR* Forskål, a name doubtfully eligible.

**Polyprion** (Cuvier) Oken, 282, ("Les Polyprions" Cuvier), Oken, 1183; type *AMPHIPRION AMERICANUS* Bloch & Schneider.

**Acerina** Cuvier, 283; type *PERCA ACERINA* Cuvier (*PERCA CERNUA* L.).

Called *CERNUA* by Schæfer and by Fleming, *ACERINA* by Gùldenstadt, *PERCIS* by Klein, and *GYMNOCEPHALUS* by Bloch.

**Stellifer** (Cuvier) Oken, 283, ("Les Stellifères" Cuvier), *STELLIFER* Oken, 1182; type *BODIANUS STELLIFER* Bloch.

Monotypic.

**Pterois** (Cuvier) Oken, 286, ("Les Pterois" Cuvier), Oken, 1183; type *SCORPÆNA VOLITANS* Bloch.

Equivalent to *PSEUDOPTERUS* Klein, which may not be eligible.

**Paralepis** Cuvier, 289; type *COREGONUS PARALEPIS* Risso Ms., *PARALEPIS COREGONOIDES* Risso.

Monotypic.

**Prochilus** Cuvier, 294; type *SCIÆNA MACROLEPIDOTA* Bloch.

Name preoccupied in mammals by *PROCHILUS* Illiger, 1811. Replaced by *DORMITATOR* Gill.

**Sander** (Cuvier) Oken, 294, ("Les Sandres" Cuvier), *SANDER* Oken, 1182; type *PERCA LUCIOPERCA* L.

**Terapon** Cuvier, 295; type *HOLOCENTRUS SERVUS* Bloch.

Error for *THERAPON*. Equivalent to *DJABUB* Forskål, which is doubtfully eligible.

**Zingel** (Cuvier) Oken, 296, ("Les Cingles" Cuvier), *ZINGEL* Oken, 1182; type *PERCA ZINGEL* L., *ASPERULUS* Schæfer.

**Umbrina** Cuvier, 297; type *SCIÆNA CIRRHOSA* L.

**Otolithes** (Cuvier) Oken, 299, ("Les Otolithes" Cuvier), *OTOLITHES* Oken, 1182; called *OTOLITHUS* by Cuvier & Valenciennes; type *JOHNIUS RUBER* Bloch & Schneider.

**Anclyodon** (Cuvier) Oken, 299, ("Les Ancylodons" Cuvier), Oken, 1182; type *LONCHURUS ANCYLODON* Bloch & Schneider.

Monotypic. Preoccupied; replaced by *MACRODON* Schinz; *SAGENICHTHYS* Berg, 1895.

**Antennarius** (Commerson) Cuvier, 310, "Les Chironectes (*ANTENNARIUS* Commerson)" Cuvier; type *LOPHIUS COMMERSONIANUS* Lacepède, *ANTENNARIUS ANTENNA TRICORNE* Commerson, in Lacepède.

Afterwards called *CHIRONECTES* by Cuvier, the name preoccupied.

**Malthe** Cuvier, 311; type *LOPHIUS VESPERTILIO* L.

Equivalent to *OGCOEPHALUS* Fischer, 1813.

**Thynnus** Cuvier, 313; type *SCOMBER THYNNUS* L.

Not *THYNNUS* Browne. The name *THYNNUS* Cuvier is preoccupied, and has been replaced by *THUNNUS* South and later by *ALBACORA* Jordan.

**Orcynus** Cuvier, 314; type *SCOMBER GERMON* Lacepède (*SCOMBER ALALONGA* Gmelin).

Name preoccupied by *ORCYNUS* Rafinesque, 1810, and replaced by *GERMO* Jordan.

**Citula** Cuvier, 315; type ("l'espèce est nouvelle") *SCIÆNA ARMATA* Forskål.

**Seriola** Cuvier, 315; type *CARANX DUMERILI* Risso.

**Nomeus** Cuvier, 315; type *GوبيUS GRONOVII* Gmelin.

Monotypic.

**Vomer** Cuvier, 316; type *VOMER BROWNI* Cuvier.

Equivalent to *RHOMBOIDA* Browne, 1789, which is probably not eligible.

**Spinachia** Cuvier, 320; type *GASTEROSTEUS SPINACHIA* L.

Monotypic.

**Lichia** Cuvier, 321; type *SCOMBER AMIA* L.

**Blepharis** Cuvier, 322; type *ZEUS CILIARIS* Bloch.

Monotypic; name preoccupied, replaced by *BLEPHARICHTHYS* Gill. A synonym of *ALECTIS* Rafinesque.

**Equula** Cuvier, 323; type *CENTROGASTER EQUULA* Gmelin.

A synonym of *LEIOGNATHUS* Lacepède.

**Atropus** (Cuvier) Oken, 324, ("Les Atropus" Cuvier), Oken, 1182; type *BRAMA ATROPUS* Bloch & Schneider.

Monotypic. Not separable from *CITULA*.

**Oligopodes** (Risso) Cuvier, 328, ("Les Leptopodes Cuvier, *OLIGOPODES* Risso"); type "l'Oligopode noir, Risso."

Described by Risso, 1826, as *OLIGOPUS NIGER*, apparently a species of *PTERACLIS*. Cuvier distinguishes *PTERACLIS* as "Les Oligopodes" and *OLIGOPODES* as "Les Leptopodes."

**Chelmon** Cuvier, 334; type *CHÆTODON ROSTRATUS* Bloch.

**Platax** Cuvier, 334; type *CHÆTODON TEIRA* Bloch.

**Heniochus** Cuvier, 335; type *CHÆTODON MACROLEPIDOTUS* Bloch.

**Ephippus** Cuvier, 335; type *CHÆTODON ORBIS* Bloch, as restricted by Cuv. & Val., 1831.

**Toxotes** Cuvier, 338; type *LABRUS JACULATOR* Bloch & Schneider.

Monotypic.

**Anabas** Cuvier, 339; type *PERCA SCANDENS* Daldorf.

Monotypic.

**Fiatola** Cuvier, 342; type *STROMATEUS FIATOLA* L.

Equivalent to *STROMATEUS* L.

**Seserinus** (Cuvier) Oken, 342, ("Les Seserinus" Cuvier); type "SESERINUS Rondelet" (*SESERINUS RONDELETI* Cuvier).

This is apparently a young *STROMATEUS*, *MICROCHIRUS* (Bonelli).

**Premnas** Cuvier, 345; type *CHÆTODON BIACULEATUS* Bloch.

Monotypic.

**Temnodon** Cuvier, 346; type *CHEILODIPTERUS HEPTACANTHUS* Lacepède.

Monotypic. Equivalent to *POMATOMUS* Lacepède. The name *POMATOMUS* was arbitrarily transferred to a different genus (*EPIGONUS* Raf.) by Cuvier.

**Amphisile** (Klein) Cuvier, 350; type *CENTRISCUS SCUTATUS* L.

Equivalent to *CENTRISCUS* L. and *AMPHISILEN* Klein.

## XCII. OKEN, *Isis*, 1817.

L. OKEN.

On pages 1182-83 (misprinted 1782-83), Professor Oken gives Latin equivalents to all the French names in the first edition of the *Règne Animal* of Cuvier, as indicated above.

## XCIII. CLOQUET, *Dictionnaire des Sciences Naturelles de Levrault* (Articles on Fishes), 1816 to 1830.

HIPPOLYTE CLOQUET.

(Latinizes several of Cuvier's names, as previously done by Oken.)

**Zingel** Cloquet, 1817; "les cingles" Cuvier, called *ZINGEL* by Oken; type *PERCA ZINGEL* L.

**Eptatretus** (Duméril) Cloquet, XV, 134, 1819; type *GASTROBRANCHUS DOMBEY* Lacepède.

Replaces *HEPTATREMA* Duméril and *BDELLOSTOMA* Müller.

XCIV. GEOFFROY ST. HILAIRE, *Suite de l'Histoire des Poissons du Nil*, Plates dated 1817, 1818.

ISIDORE GEOFFROY ST. HILAIRE.

**Porcus** Geoffroy St. Hilaire, 303, 1818; type **SILURUS BAJAD** Forskål.

Equivalent to **BAGRUS** Cuv. & Val. but not to "les Bagres" Cuvier, 1817, **BAGRE** Oken. **PORCUS** should probably replace **BAGRUS**, which is a latinization of **BAGRE**, the vernacular Spanish name for the larger cat-fishes.

**Heterobranchus** Geoffroy St. Hilaire, 305, 1818; type **HETEROBRANCHUS BIDORSALIS** Geoffroy St. Hilaire.

XCV. LE SUEUR, *Description of Several New Species of North American Fishes*: Jour. Ac. Nat. Sci. Phila., 1818.

CHARLES A. LE SUEUR.

**Somniosus** Le Sueur, 222; type **SOMNIOSUS BREVIPINNA** Le Sueur, **SQUALUS MICROCEPHALUS** Bloch & Schneider.

**Platirostra** Le Sueur, 223; type **PLATIROSTRA EDENTULA** Le Sueur.

Same as **POLYODON**.

**Hiodon** Le Sueur, 366; type **HIODON TERGISUS** Le Sueur.

Often spelled **HYODON**.

XCVI. RANZANI, *Descrizione di un Pesce, un Nuovo Genere dei Tænioidei*: Opusculo Sci. Bologna, II, 1818.

CAMILLO RANZANI.

**Epidesmus** Ranzani, 133; type **EPIDESMUS MACULATUS** Ranzani.

Synonym of **REGALECUS**.

XCVII. BLAINVILLE, *Poissons Fossiles*: Nouveau Dictionnaire, XXVII, 1818.

HENRI MARIE DUCROTAY DE BLAINVILLE.

Not seen by us.

**Anenchelum** Blainville; type **ANENCHELUM GLARISIANUM** Blainville (fossil: **LEPIDOPIDÆ**).

CIII. RAFINESQUE, *Prodrome de 70 Nouveaux Genres et d'Animaux Découverts dans l'intérieur des États Unis d'Amérique durant l'Année 1818*: Journal de Physique, de Chymie et d'Histoire Naturelle, Paris, June 1819.

**Aplodinotus** Rafinesque, 419; type **APLODINOTUS GRUNNIENS** Raf.

Spelling corrected by Gill to **HAPLODONOTUS**.

**Etheostoma** Rafinesque, 419; type **ETHEOSTOMA BLENNIOIDES** Raf.

As determined by Agassiz. Later fixed on **ETHEOSTOMA FLABELLARIIS** Rafinesque by Jordan & Evermann. Replaces **DIPLESION** Rafinesque and **HYOSTOMA** Agassiz.

**Leucops** Rafinesque, 419; type **POGOSTOMA LEUCOPS** Raf.

A myth of Audubon.

**Aplocentrus** Rafinesque, 420; type **APLOCENTRUS CALLIOPS** Raf.

Mythical; after Audubon.

**Calliurus** Rafinesque, 420; type **CALLIURUS PUNCTULATUS** Raf.

A synonym of **MICROPTERUS** Lacepède.

**Lepomis** Rafinesque, 420; type, as stated by the author, **LABRUS AURITUS** L.

**Pomotis** Rafinesque, 420; type also stated to be **LABRUS AURITUS** L.

**Apomotis** Rafinesque, 420; type **LEPOMIS CYANELLUS** Raf.

**Notemigonus** Rafinesque, 421; type **NOTEMIGONUS AURATUS** Raf. (**CYPRINUS CRYSOLEUCAS** Mitchill).

**Amphiodon** Rafinesque, 421; **AMPHIODON ALVEOIDES** Raf. (Misprint for **ALOSOIDES**.)

Replaces **ELATTONISTIUS** Gill & Jordan.

**Amblodon** Rafinesque, 421; type **AMBLODON BUBALUS** Raf.

The "Buffalo-fish," to which the large blunt pharyngeal teeth of **APLODINOTUS** were wrongly ascribed. A complex; the name **AMBLODON** later restricted by Rafinesque to **APLODINOTUS GRUNNIENS**, while the Buffalo-fish became type of **ICTIOBUS** Rafinesque.

**Cycleptus** Rafinesque, 421; type **CYCLEPTUS NIGRESCENS** (**CATOSTOMUS ELONGATUS** Le Sueur).

**Pilodictis** Rafinesque, 422; type **PILODICTIS LIMOSUS** Raf.

A myth.

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CIV. RAFINESQUE, *Annals of Nature*, I, 1820.

**Hemiplus** Rafinesque, 6; type **HEMIPLUS LACUSTRIS** Raf. (**CYPRINUS CRYSOLEUCAS** Mitchill).

Same as **NOTEMIGONUS** Rafinesque, 1819.



CV. RAFINESQUE, *Ichthyologia Ohiensis*, 1820.

It was the fortune of Professor Rafinesque to be one of the first to explore two of the richest fish faunas of the world, that of Sicily and that of the Ohio River. His various papers show his peculiar traits, intense activity, keen philosophical insight, and hopeless slovenliness in method.

**Stizostedion** Rafinesque, 23; type *PERCA SALMONEA* Raf. (*PERCA VITREA* Mitchill).

**Lepibema** Rafinesque, 23; type *PERCA CHRYSOPS* Raf.

**Pomacampsis** Rafinesque, 23; type *PERCA NIGROPUNCTATA* Raf.

Mythical, being one of Audubon's practical jokes.

**Ichthelis** Rafinesque, 27; type *LABRUS AURITUS* L.

A needless substitute for *LEPOMIS*, which is transferred (p. 30) to species of *MICROPTERUS* Lacepède.

**Telopomis** Rafinesque, 27; type *LEPOMIS CYANELLUS* Raf.

A needless substitute for *APOMOTIS*.

**Aplites** Rafinesque, 30; type *LEPOMIS PALLIDA* Raf.

A species of *MICROPTERUS*.

**Nemocampsis** Rafinesque, 30; type *LEPOMIS FLEXUOLARIS* Raf.

A species of *MICROPTERUS*.

**Dioplites** Rafinesque, 32; type *LEPOMIS NOTATA* Raf.

Also a synonym of *MICROPTERUS*.

**Ambloplites** Rafinesque, 33; type *LEPOMIS ICHTHELOIDES* Raf. (*BODIANUS RUPESTRIS* Raf., 1817).

**Aplesion** Rafinesque, 36; type *ETHEOSTOMA CALLIURA* Raf.

The young of *MICROPTERUS*.

**Diplesion** Rafinesque, 37; type *ETHEOSTOMA BLENNIOIDES* Raf.

A synonym of *ETHEOSTOMA* Raf. See opinion 14, Comm. Zool. Nomenc.

**Pomolobus** Rafinesque, 38; type *POMOLOBUS CHRYSOCHLORIS* Raf.

**Dorosoma** Rafinesque, 39; type *DOROSOMA HETERURA* Raf. (*MEGALOPS CEPEDIANA* Le Sueur).

**Clodalus** Rafinesque, 43; type *HIODON CLODALUS* Le Sueur.

Same as *HIODON*.

**Minnilus** Rafinesque, 45; type *MINNILUS DINEMUS* Raf.

This is apparently the same as *NOTROPIS* Raf., 1818.

CVIII. GOLDFUSS, *Handbuch Zoologie*, II, 1820.\*

GEORG AUGUST GOLDFUSS.

**Batrachops** Goldfuss; type **LOPHIUS COMMERSONIANUS** Lacepède.Substitute for **CHIRONECTES**, preoccupied. Equivalent to **ANTENNARIUS**.CIX. LE SUEUR, *Description of a new Genus and Several New Species of Fresh-Water Fish Indigenous to the United States*: Jour. Ac. Nat. Sci. Phila., II, 1821.

CHARLES A. LE SUEUR.

**Mollinesia** Le Sueur, 2; type **MOLLINESIA LATIPINNA** Le Sueur.CX. HAMILTON, *An Account of the Fishes found in the River Ganges and its Branches*: Edinburgh, 1822.†

FRANCIS HAMILTON [formerly BUCHANAN].

(Often quoted as FRANCIS HAMILTON-BUCHANAN.)

**Callichrous** Hamilton, 149; type **SILURUS BIMACULATUS** Bloch.Synonym of **OMPOK** Lacepède.**Cynoglossus** Hamilton, 365; type **CYNOGLOSSUS LINGUA** Hamilton.

Monotypic.

**Bola** Hamilton, 368; type **BOLA COITOR** Hamilton.

As restricted by Jordan.

**Coius** Hamilton, 369; type **COIUS COBOJUS** Hamilton (**PERCA SCANDENS** DALDORF).

As here restricted by us.

The first species named, **COIUS VACTI** Hamilton, is **LATES COLONORUM**. The genus **Coius** is grossly unnatural and is best served by relegation to synonymy.Hamilton observes: "The Coboju by the natives is considered as the prototype of their genus 'Coi' from which the name **COIUS** is derived."Equivalent to **ANABAS** Cuvier.**Chanda** Hamilton, 370; type **CHANDA RUCONIUS** Hamilton.The first unquestioned species named. It is a species of **LEIOGNATHUS** Lacepède. The others named belong to **AMBASSIS** Cuvier.\* "**ACANTHIOTUS** Goldfuss" quoted by Agassiz (Nomenclator) is merely a misprint for **ACANTHONOTUS**.

† We are indebted to Mr. John Smallwood for the record of the genera of Hamilton.

**Sisor** Hamilton, 379; type *SISOR RABDOPHORUS* Hamilton.

Monotypic.

**Corica** Hamilton, 383; type *CORICA COBORNA* Hamilton.

Monotypic. Apparently an ally of *CLUPEOIDES* Bleeker. Not *CORICUS* Cuvier.

**Chela** Hamilton, 383; type *CYPRINUS CACHIUS* Hamilton.

The first species named; as restricted by Bleeker, 1862. Günther later restricts it to *C. GORA* Hamilton. Replaces *CACHIA* Günther.

**Barilius** Hamilton, 384; type by tautonomy *CYPRINUS BARILA* Hamilton.

The first species named.

**Bangana** Hamilton, 385; type *CYPRINUS DERO* Hamilton.

The first species named: probably replaces *TYLOGNATHUS* Heckel and *LOBOCHEILUS* van Hasselt.

**Puntius** Hamilton, 388; type *CYPRINUS PUNTIO* Hamilton.

By tautonomy. Restricted to *CYPRINUS SOPHORE* Hamilton by Bleeker.

**Danio** Hamilton, 390; type *CYPRINUS DANGILA* Hamilton.

The first species named; as restricted by Bleeker.

**Morulus** Hamilton, 391; type *CYPRINUS MORALA* Hamilton.

The first species named; restriction by Bleeker.

**Cabdio** Hamilton, 392; type *CYPRINUS JAYA* Hamilton.

The first species named.

**Garra** Hamilton, 393; type *CYPRINUS LAMTA* Hamilton.

The first species named; as restricted by Bleeker. Replaces *DISCOGNATHUS* Heckel.

CXI (A). LEACH & DE LA BÈCHE, *Trans. Zool. Soc. London*, (2)  
1822.

WILLIAM E. LEACH.

**Dapedium** Leach & De La Bèche, 45; type *DAPEDIUM POLITUM* Leach  
(fossil).

Written *DAPEDIUS* by Agassiz.

CXI (B). SCHINZ, *Das Thierreich*, II, 1822.

H. R. SCHINZ.

**Macrodon** Schinz, 482; type *LONCHURUS ANCYLODON* Bloch & Schneider.

Replaces *ANCYLODON* Cuvier, 1817, preoccupied by *ANCYLODON* Illiger, 1811, a genus of mammals. *MACRODON* is prior to *SAGENICHTHYS* Berg, 1895, also a substitute for *ANCYLODON*. Not *MACRODON* Müller & Troschel, which is replaced by *HOPLIAS* Gill, 1903.

CXII. VAN HASSELT, (*Poissons de Java*): Allgemeine Konst. en Letterbok, II, 1823.

JAN COENRAD VAN HASSELT.

**Homaloptera** Van Hasselt, 130; type HOMALOPTERA FASCIATA Van Hasselt.

**Crossocheilus** Van Hasselt, 132; type CROSSOCHEILUS OBLONGUS Van Hasselt.

**Hampala** Van Hasselt, 132; type HAMPALA MACROLEPIDOTA Van Hasselt.

**Lobocheilus** Van Hasselt, 133; type LOBOCHEILUS FALCIFER Van Hasselt.

A synonym of BANGANA.

**Nemacheilus** Van Hasselt, 133; type COBITIS FASCIATUS Valenciennes.

**Acanthopsis** Van Hasselt, 133; type ACANTHOPSIS DIALYZONA Van Hasselt.

**Acanthophthalmus** Van Hasselt, 133; type ACANTHOPHTHALMUS FASCIATUS Van Hasselt.

**Homaloptera** Van Hasselt, 133; type HOMALOPTERA FASCIATA Van Hasselt.

**Oxygaster** Van Hasselt, 133; type OXYGASTER ANOMALURUS Van Hasselt.

CXIII. DESMAREST, *Première Décade Ichthyologique*, 1823.

ANSELME GAËTAN DESMAREST.

**Diabasis** Desmarest, 34; type DIABASIS PARRA Desmarest.

Not DIABASIS Hoffmansegg, a genus of beetles, 1819. Replaced by HÆMULON Cuvier.

CXIV. NARDO, *Osservazione Aggiunte all' Adriatica Ittiologia*, 1824.

GIAN DOMENICO NARDO.

**Squatinatoraja** Nardo; type SQUATINORAJA COLONNA (RHINOBATUS COLUMNÆ Müller & Henle).

A synonym of RHINOBATUS.

- CXV. MITCHILL, *Description of an Extraordinary Fish*: Ann. Lyc. Nat. Hist. N. Y., I, 1824.

SAMUEL LATHAM MITCHILL.

**Saccopharynx** Mitchill, 82; type **SACCOPHARYNX FLAGELLUM** Mitchill.

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- CXVI. VALENCIENNES, *Description du Cernié*: Mém. du Museum, Paris, XI, 1824.

ACHILLE VALENCIENNES.

**Polyprion** Valenciennes, 265; type **POLYPRION CERNIUM** Valenciennes.

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- CXVII. OTTO, *Propterygia hyposticta*, Nova Acta Acad., 1824.

B. C. OTTO.

**Propterygia** Otto, 111; type **PROPTERYGIA HYPOSTICTA** Otto.

A deformed **RAJA**, with the pectoral fins free from the head, similar to **CEPH-ALEUTHERUS** Rafinesque.

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- CXVIII. QUOY & GAIMARD, *Voyage Autour du Monde . . . Exécuté sur les Corvettes l'Uranie et la Physicienne*. Under Captain Louis de Freycinet, 1824.

JEAN RÉNÉ CONSTANTINE QUOY; JOSEPH PAUL GAIMARD.

This important work, which closely preceded the second edition of the *Règne Animal*, adopted a few unpublished names from Cuvier's manuscripts.

**Anampses** (Cuvier) Quoy & Gaimard, 276; type **ANAMPSES CUVIER** Q. & G.

Monotypic.

**Gerres** (Cuvier) Quoy & Gaimard, 293; type **GERRES VAIGIENSIS** Q. & G., which is **SCIÆNA ARGYREA** Forskål.

In this paper the genus *GERRES* is mentioned for the first time. But two species are named, *G. VAIGIENSIS* and *G. GULA*. The former belongs to the modern genus *XYSTÆMA* Jordan & Evermann, the latter to *EUCINOSTOMUS* Baird. When *GERRES* was later defined by Cuvier in the *Règne Animal*, *SCIÆNA ARGYREA*, which is identical with *G. VAIGIENSIS*, is included, and *G. GULA* is not mentioned. It would appear that *G. VAIGIENSIS* must be taken as type, thus replacing *XYSTÆMA*.

Jordan & Evermann have taken an American species, *GERRES LINEATUS* (Humboldt) as type. This species is named by Cuvier, but not by Quoy & Gaimard. It cannot therefore serve as the type of *GERRES*. The genus called *GERRES* by Jordan & Evermann must apparently stand as *DIAPTERUS* Ranzani. If *GERRES* is regarded as preoccupied by *GERRIS* Fabricius, a genus of insects of earlier date, the substitute name of *CATOCHÆNUM* Cantor, 1850, should be used.

**Percophis** Quoy & Gaimard, 351; type *PERCOPHIS BRASILIANUS* Q. & G.  
Monotypic.

**Priodon** (Cuvier) Quoy & Gaimard, 377; type *PRIODON ANNULATUS* Q. & G.

A species of *Naso* Lacepède.

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CXVIII (A). HARLAN, *Saurocephalus*: Journ. Ac. Nat. Sci. Phila., III (fossil fish), 1824.

RICHARD HARLAN.

**Saurocephalus** Harlan, 339; type *SAUROCEPHALUS LANCIFORMIS* Harlan.

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CXIX. KÖNIG, *Icones Fossiles Sectione*, 1825.

C. KÖNIG.

**Bucklandium** König, 4; type *BUCKLANDIUM DILUVII* König.  
Monotypic.

**Ampheristus** König, pl. XV, fig. 190; type *AMPHERISTUS TOLIACUS* König.  
Monotypic.

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CXX. BOWDICH, *Fishes of Madeira*, 1825.

T. EDWARD BOWDICH.

**Labeo** Bowdich, 122; type *LABEO SPAROIDES* Bowdich.  
A sparoid fish; not *LABEO* Cuvier, 1817.

**Anomalodon** Bowdich, 237; type **ANOMALODON INCISUS** Bowdich.

Apparently a synonym of **POMADASYS** Lacepède.

**Diastodon** Bowdich, 238; type **DIASTODON SPECIOSUS** Bowdich (**LABRUS SCROFA** Cuv. & Val.).

This genus appears valid. It is near **LEPIDAPLOIS** Gill, but with much smaller scales.

**Seleima** Bowdich, 238; type **SELEIMA AURATA** Bowdich.

A synonym of **KYPHOSUS** Lacepède (**K. INCISOR**).

**Amorphocephalus** Bowdich, 238; type **AMORPHOCEPHALUS GRANULATUS** Bowdich.

A synonym of **XIRICHTHYS** Cuvier.

CXXI. **RISSO**, *Histoire Naturelle des Principales Productions de l'Europe Méridionale*, vol. III, Paris, 1826.

**ANASTASE RISSO.**

**Lamia** Risso, 123; type **SQUALUS CORNUBICUS** L.

Monotypic. A synonym of **LAMNA** Cuvier, 1817.

**Acanthias** Risso, 131; type **SQUALUS ACANTHIAS** L.

Equivalent to **SQUALUS** L. as restricted.

**Scyphius** Risso, 185; type **SCYPHIUS FASCIATUS** Risso.

A synonym of **NEROPHIS** Rafinesque, 1810.

**Onos** Risso, 214; type **GADUS MUSTELA** Bloch.

A synonym of **GAIDROPSARUS** Rafinesque.

**Lotta** Risso, 217; type **GADUS ELONGATUS** Otto.

A variant of **Lota** Cuvier, 1817 ("Les Lottes"); apparently not eligible as a substitute for **MOLVA** Fleming.

**Mora** Risso, 224; type **MORA MEDITERRANEA** Risso.

**Morua** Risso, 225; type **GADUS CAPELAN** Lacepède.

According to Risso, a synonym of **TRISOPTERUS** Rafinesque, 1814; prior to **BRACHYGADUS** Gill (**GADUS MINUTUS** L.). Monotypic.

**Tripterygion** Risso, 241; type **TRIPTERYGION NASUS** Risso.

Monotypic.

**Diana** Risso, 267; type **DIANA SEMILUNATA** Risso.

Monotypic.

**Aphia** Risso, 287; type **APHIA MERIDIONALIS** Risso.

Apparently a young **ATHERINA**. Monotypic.

**Fiatola** Risso, 289; type **FIATOLA FASCIATA** Risso.

Monotypic. Apparently a young **STROMATEUS**.

**Ausonia** Risso, 341; type **AUSONIA CUVIERI** Risso.

A synonym of **LUVARUS** Rafinesque.

**Aurata** Risso, 355; type **AURATA SEMILUNATA** Risso.

A synonym of **SPARUS** L. as restricted by Fleming.

**Macrostoma** Risso, 447; type **MACROSTOMA ANGUSTIDENS** Risso.

Not **MACROSTOMUS** Wied, a genus of insects; replaced by **NOTOSCOPELUS** Günther.

**Alpismaris** Risso, 458; type **ALPISMARIS** RISSO Risso.

The young of **Synodus**.

**Paralepis** Risso, 472; type **PARALEPIS COREGONOIDES** Risso (**COREGONUS MACRÆNULA** Risso, 1810).

CXXI (A). **GERMAR**, *Keferstein's Deutschland's Geognosie Dargestellt*, 1826.

E. F. **GERMAR**.

**Ichthyolithus** Gernar, IV, 96; type **ICHTHYOLITHUS ESOCIFORMIS** Gernar.

Perhaps identical with **LEPTOLEPIS**. **ICHTHYOLITHUS**, a term for fossil fishes used by early authors, is perhaps not intended as a scientific name.

CXXII. **GEOFFROY ST. HILAIRE**, *Histoire Naturelle des Poissons de la Mer Rouge et de la Méditerranée*, 1826.

**ISIDORE GEOFFROY ST. HILAIRE**.

**Trygon** Geoffroy St. Hilaire; type **TRYGON GRABATUS** Geoffroy St. Hilaire.

This species is not noticed by recent writers. It is apparently a species of **TÆNIURA** Müller & Henle, 1842, allied to **TÆNIURA LYMMA** (Forskål). This is generically distinct from the type of **TRYGON** (Adanson) Cuvier, 1817. St. Hilaire makes no reference to Adanson, from whose manuscripts Cuvier took the name. It is plain that the date of the article which contains the name **TRYGON** is subsequent to 1825, as a footnote relates to a paper read in October 1825, and printed in November. Hence we assume the date of the present paper as 1826. In any event **TRYGON** St. Hilaire is preceded by **TRYGON** Cuvier, and both are later than **DASYATIS** Rafinesque and **DASYBATIS** Klein.



CXXIII. KAUP, *Beiträge zur Amphibiologie und Ichthyologie*: Isis, XIX, 1826.

JOHANN JACOB KAUP.

Not seen by us.

**Rachycentron** Kaup, 89; type RACHYCENTRON TYPUS.

Name amended in 1827 (*Isis*, p. 624) to RACHYCENTRUM. Replaces ELACATE Cuvier.

**Narke** Kaup (Ueber NARKE, 65); type RAJA CAPENSIS Gmelin.

Replaces ASTRAPE Gray.

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CXXIV. NARDO, *De Proctostego Novum Piscium*: in Diario Chem. et Hist. Nat. Ticino, vol. I, 1827.

GIAN DOMENICO NARDO.

**Proctostegus** Nardo, I, 18, 42; type PROCTOSTEGUS PROCTOSTEGUS Nardo.

A synonym of DIANA Risso.

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CXXV. NARDO, *Prodromus Observationem et Disquisitionem, Adriaticæ Ichthyologiæ*: Giorn, Fisica de Pavia, I, 1827.

**Aphanius** Nardo, 17, 23; type APHANIUS NANUS Nardo (CYPRINODON CALARITANUS Cuv. & Val.).

A valid genus replacing LEBIAS of authors (not of Cuvier) and MICROMUGIL Gulia, 1861. Local name "Nani vel noni."

**Acentrolophus** Nardo, 11; type ACENTROLOPHUS MACULATUS Nardo (PERCA NIGRA Gmelin).

Substitute for CENTROLOPHUS Lacepède, regarded as inapplicable.

**Leptosoma** Nardo, 15, 22; type LEPTOSOMA ATRUM Nardo.

Name preoccupied in Crustacea, Leach, 1819. "Stogio bastardo"; synonym probably of MONOCHIRUS.

**Pastinacæ** Nardo, 11; type RAJA PASTINACA L.

**Lævirajæ** Nardo, 11; type RAJA MIRALETUS L.

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CXXVI. HARWOOD, *On a Newly Discovered Genus of Serpentine Fishes*: Philos. Trans., 1827.

J. HARWOOD.

**Ophiognathus** Harwood, 49; type OPHIOGNATHUS AMPULLACEUS Harwood.

A synonym of SACCOPHARYNX Mitchill.

CXXVII. CLOQUET, *Nouveau Dictionnaire d'Histoire Naturelle*:  
Nouvelle Edition, XXX, 1827.

HIPPOLYTE CLOQUET.

**Sandat** Cloquet, XXX, 126, 129; type *PERCA LUCIOPERCA* L.

Based on "Les Sandres" Cuvier. A synonym of *SANDER* (Cuvier) Oken.

CXXVIII. RÜPPELL, *Atlas zu der Reise in Nördlichen Afrika*:  
Fische des Rothen Meeres, 1828.

EDUARD RÜPPELL.

**Pharopteryx** Rüppell, 15; type *PHAROPTERYX NIGRICANS* Rüppell.

A synonym of *PLESIOPS* Cuvier as later shown by Rüppell.

**Lutodeira** (Van Hasselt) Rüppell, 17; type *LUTODEIRA INDICA* (MUGIL  
CHANOS L.).

A synonym of *CHANOS*. Monotypic.

**Scoliostrumus** Rüppell, 17; same type.

A synonym of *CHANOS*.

**Haliophis** Rüppell, 49; type *MURÆNA GUTTATA* Forskål.

Monotypic.

**Pastinachus** Rüppell, 82; type *RAJA SEPHEN* Forskål.

Same as *HYPOLOPHUS* Müller & Henle. Not *PASTINACA* Nardo.

**Asterropteryx** Rüppell, 138; type *ASTERROPTERYX SEMIPUNCTATUS* Rüppell.

CXXIX. FLEMING, *History of British Animals*, 1828.

JOHN FLEMING.

**Selanonius** Fleming, 169; type *SELANONIUS WALKERI* Fleming =  
*SQUALUS NASUS* (Bonnaterre).

A synonym of *LAMNA* Cuvier.

**Encrasicholus** Fleming, 183; type *CLUPEA ENCRASICHOLUS* L.

Synonym of *ENGRAULIS* Cuvier, 1817. Monotypic.

**Gobitis** Fleming, 189; type *COBITIS TÆNIA* L.

A perversion of *COBITIS*.

**Morhua** Fleming, 190; type *GADUS MORRHUA* L.

A synonym of *GADUS* L.

**Molva** Fleming, 197; type *GADUS MOLVA* L.

**Cernua** Fleming, 212; type *PERCA CERNUA* L.

Same as *CERNUA* Schæfer or *ACERINA* Gùldenstadt.

**Cataphractus** Fleming, 216; type *COTTUS CATAPHRACTUS* L.

A synonym of *AGONUS* Bloch & Schneider.

**Spinachia** Fleming, 219; type *GASTEROSTEUS SPINACHIA* L.

CXXX. STARK, *Elements of Natural History*, Edinburgh, 2 vols., 1828.

JOHN STARK.

Latinization of several of Cuvier's names, some of them differing from the form chosen by Oken. These are the following:

**Brosmus** Stark, I, 425; type *GADUS BROSME* Müller.

Same as *BROSME* Oken, 1817.

**Sandrus** Stark, I, 452; type *PERCA LUCIOPERCA* L.

Same as *SANDER* Oken.

**Stelliferus** Stark, I, 459; type *BODIANUS STELLIFER* Bloch.

Same as *STELLIFER* Oken.

**Cingla** Stark, I, 465; type *PERCA ZINGEL* L.

Same as *ZINGEL* Oken.

**Daurada** Stark, I, 465; type *SPARUS AURATA* L.

A synonym of *SPARUS* L.

CXXXI. LESSON, *Description du Nouveau Genre Ichthyophis*: Mém. Soc. Nat. Hist. Paris, IV, 397, 1828.

R. P. LESSON.

**Ichthyophis** Lesson, 397; type *ICHTHYOPHIS PANTHERINUS* Lesson.

Name preoccupied; replaced by *UROPTERYGIUS* Rüppell.

CXXXII. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, vol. II, 1828.

GEORGES CUVIER and ACHILLE VALENCIENNES.

The first two volumes (the first one being anatomical and descriptive) of this great work preceded the second edition of the *Règne Animal*. The third and fourth volumes, also dated 1829, appeared in the last half of the year. The second edition of the *Règne Animal*, Vol. II, con-

taining the fishes, appeared in the first half of the year 1829, according to Mr. Fowler.

**Labrax** Cuvier & Valenciennes, II, 55; type PERCA LABRAX L. (LABRAX LUPUS C. & V.).

This is LABRAX of Klein, but not of Pallas, 1811.

**Lates** Cuvier & Valenciennes, 88; type PERCA NILOTICA L.

**Lucioperca** Cuvier & Valenciennes, II, 110; type PERCA LUCIOPERCA L. (LUCIOPERCA SANDRA Cuv. & Val.).

A synonym of SANDER Oken.

**Huro** Cuvier & Valenciennes, 125; type HURO NIGRICANS (LABRUS SALMOIDES Lacepède).

The genus is identical with GRYSTES. Both are synonyms of MICROPTERUS Lacepède.

**Etelis** Cuvier & Valenciennes, II, 127; type ETELIS CARBUNCULUS Cuv. & Val.

Monotypic.

**Diploprion** (Kuhl & Van Hasselt) Cuvier & Valenciennes, 137; type DIPLOPRION BIFASCIATUM Kuhl & Van Hasselt.

Monotypic.

**Pomatomus** (Risso) Cuvier & Valenciennes, II, 171; type POMATOMUS TELESCOPIUM Risso.

Not POMATOMUS Lacepède. Stands as EPIGONUS Rafinesque.

**Ambassis** (Commerson) Cuvier & Valenciennes, II, 175; type CENTRO-POMUS AMBASSIS Lacepède (AMBASSIS COMMERSONI Cuv. & Val.), SCIÆNA SAFGHA Forskål.

**Aspro** Cuvier & Valenciennes, II, 188; type PERCA ASPER L.

Equivalent to ASPER Schæfer and ASPERULUS Klein. Not ASPRO Commerson. PERCA ASPER is probably generically distinct from ZINGEL (Cuvier) Oken. The genus may stand as ASPER Schæfer or ASPERULUS Klein, both names of questionable eligibility.

**Mesoprion** Cuvier (*Règne Animal*, 143), Cuv. & Val., II, 441; type LUTIANUS LUTIANUS Bloch.

Name a substitute for LUTJANUS, regarded as barbarous.

CXXXIII. BORY DE SAINT VINCENT, *Dictionnaire Classique d'Histoire Naturelle*, XIII, 201, 1828.

JEAN BAPTISTE GEORGE MARIE BORY DE ST. VINCENT.

**Sandat** Bory de St. Vincent, XIII, 204, 1828; type PERCA LUCIOPERCA L.  
A synonym of SANDER Oken.

CXXXIII (A). SEDGWICK & MURCHISON, *Fossil Fishes*: Trans. Geol. Soc. (2), III, 1828.

ADAM SEDGWICK and RODERIC IMPEY MURCHISON.

*Dipterus* Sedgwick & Murchison, 143; type *DIPTERUS VALENCIENNESI* Sedgwick & Murchison.

CXXXIV. CUVIER, *Le Règne Animal, distribué d'Après son Organisation*: Edition II, Vol. II (Fishes etc.), 1829.

GEORGES CUVIER.

A work of great importance, constituting with the first edition in 1817 the foundation of modern Ichthyology. The classification of fishes by Cuvier was for the first time solidly based on the true basis of Comparative Anatomy.

According to Henry Weed Fowler (*Proc. Ac. Nat. Sci. Phila.*, 1907, 264) the first, second, fourth and fifth fascicles of the second volume (*Fishes* etc.) of the Second Edition of the *Règne Animal* appeared in January, February and March 1829. The third was delayed until about July. The third and fourth volumes of the *Histoire Naturelle des Poissons* appeared later in the same year, 1829. These facts do not affect nomenclature, so far as we observe. We are indebted to Mr. Fowler for the pagination of the *Règne Animal*, our two copies being reprints.

*Acerina* Cuvier, 144 (Cuv. & Val., III, 3); type *PERCA CERNUA* L.

Identical with *CERNUA* Schæfer, *ACERINA* Gùldenstadt, *PERCIS* Klein, and *GYMNOCEPHALUS* Bloch. The eligibility of these earlier names awaits decision.

*Rypticus* Cuvier, II, 144 (Cuv. & Val., III, 60); type *ANTHIAS SAPO- NACEUS* Bloch.

More correctly written *RHYPTICUS*.

*Pentaceros* Cuvier, 145 (Cuv. & Val., III, 30); type *PENTACEROS CAPENSIS* C. & V.

This name has been regarded as preoccupied by *PENTACEROS* Schulte, 1760, a star-fish.\* It has been replaced by *QUINQUARIUS* Jordan. This change may not be necessary. According to Prof. Walter K. Fisher *PENTACEROS* of Schulte is not properly a generic name but a quasi-vernacular.

*PENTACEROS* Schröter, 1782, a name for the same animal is doubtfully tenable.

\*Dr. Fisher (*Smithson. Misc. Coll.*, no. 1799, 1908) explains that Schulte (*"Versteinerte Seesterne"*) following the pre-Linnæan work of Linck (*De Stel-*

**Centropristes** Cuvier, 145 (Cuv. & Val., III, 56); type **CENTROPRISTES NIGRICANS** Cuv. & Val. (**LABRUS STRIATUS** L.).

Later written **CENTROPRISTIS**.

**Gristes** Cuvier (Cuv. & Val., III, 54); type **LABRUS SALMOIDES** Lacépède.

A synonym of **MICROPTERUS** Lacépède. Later written **GRYSTES**.

**Chironemus** Cuvier (C. & V., 78), 146; type **CHIRONEMUS GEORGIANUS** Cuv. & Val.

Monotypic.

**Pomotis** Cuvier, 147 (C. & V., III, 99); type "**POMOTIS VULGARIS**" (**PERCA GIBBOSA** L.).

No reference is made to Rafinesque's genus **POMOTIS**, proposed in 1819, with "**LABRUS AURITUS** L." as type. The description of Cuv. & Val. refers to the species called **PERCA GIBBOSA** by Linnæus (**EUPOMOTIS GIBBOSUS** of Gill & Jordan). To this same species Rafinesque later transferred his generic name **POMOTIS**. Stands as **EUPOMOTIS** Gill & Jordan.

**Centrarchus** Cuvier 147 (C. & V., III, 84); type **CYCHLA ÆNEA** Le Sueur.

A synonym of **AMBLOPLITES** Rafinesque, 1820. **LABRUS IRIDEUS** Lacépède, usually accepted as the type of **CENTRARCHUS**, is noted by Cuvier as an uncertain species which the author had not seen. The genus typified by **IRIDEUS** Lacépède (= **MACROPTERUS** Lacépède) must stand as **EUCENTRARCHUS** Gill, and its family as **MICROPTERIDÆ**, as Fowler has already indicated.

**Dules** Cuvier, 147 (C. & V., III, 111); type **DULES AURIGA** Cuvier.

Fowler (1907) regards **DULES** as preoccupied by **DULUS** Vieillot, 1816, a genus of birds. He gives a new name, **EUDULUS**, to **DULES AURIGA**.

**Datnia** Cuvier, 147 (C. & V., III, 138); type **COIUS DATNIA** Hamilton (**DATNIA ARGENTEA** Cuv. & Val.).

**Pelates** Cuvier, 148 (C. & V., III, 145); type **PELATES QUADRILINEATUS** Cuv. & Val.

*his Marinis*, 1793) divides the star-fishes into three "genera" ("Geschlechter"), to which he gives group names, the five-rayed forms being under the "genus" "quinquifidæ." Under these are several kinds or species ("Arten"), one of them, "Der fünfhörnichte, **PENTACEROS**, hat fünf tiefe ausgeschweifte Seiten und lange kolbichte oder zugespitzte Strahlen. Die hierher gehörigen Arten sind entweder platt, **PLANÆ**, oder ab hockericht und bauchericht, **GIBBÆ**."

Obviously this is not scientific nomenclature.

"Schröter in 1782 (*Musei Gottwaldiani Testaceorum, Stellarum marinum* etc., Nürnberg, 58) used **PENTACEROS**, but he is not a consistent binomialist, and his 'generic' names are not tenable."

It is evident that **PENTACEROS** has no standing in nomenclature prior to its use by Cuvier & Valenciennes, unless given it by Schröter in 1782, a matter which awaits decision.

**Helotes** Cuvier, 148 (C. & V., III, 149); type **THERAPON SEXLINEATUS** Quoy & Gaimard.

Monotypic.

**Trichodon** (Steller) Cuvier, about 150 (C. & V., III, 153); type **TRACHINUS TRICHODON** Steller (**TRICHODON STELLERI** Cuv. & Val.).

Monotypic.

**Myripristis** Cuvier (about 150), (C. & V., III, 160); type **MYRIPRISTIS JACOBUS** Cuv. & Val.

**Beryx** Cuvier (about 150), (C. & V., III, 222); type **BERYX DECACTYLUS** Cuv. & Val.

**Pinguipes** Cuvier, 153 (C. & V., III, 277); type **PINGUIPES BRASILIANUS** Cuv. & Val.

Monotypic. A synonym of **MUGILOIDES** Lacepède.

**Upeneus** Cuvier (about 160), (C. & V., III, 446); type **MULLUS BIFASCIATUS** Lacepède.

As first restricted by Bleeker. Later Bleeker transferred the name **UPENEUS** to the first species named by Cuvier & Valenciennes, **MULLUS VITTATUS** Forskål, already the type of his own genus **UPENEOIDES**. **MULLUS BIFASCIATUS** became then **PARUPENEUS**. This reversal seems to us unjustified. The name has been spelled **HYPENEUS**. **UPENEUS** should stand.

**Hemitripterus** Cuvier, 164; type **COTTUS TRIPTERYGIUS** Bloch & Schneider.

**Hemilepidotus** Cuvier, 165; type **COTTUS HEMILEPIDOTUS** Tilesius.

Monotypic.

**Sebastes** Cuvier, 166; type **PERCA NORVEGICA** Müller.

**Blepsias** Cuvier, 167; type **BLENNIUS VILLOSUS** Pallas.

Monotypic.

**Apistes** Cuvier, 167; type **APISTES ALATUS** Cuvier.

**Agriopus** Cuvier ("Les Agriopes"), 168; type **BLENNIUS TORVUS** Walbaum.

**Pelor** Cuvier, 168; type **SCORPÆNA DIDACTYLA** Pallas (**PELOR OBSCURUM** Cuvier).

Monotypic. Name preoccupied for a genus of beetles, 1813. Replaced by **INIMICUS** Jordan & Starks (type **PELOR JAPONICUM** Cuv. & Val.). **P. FILAMENTOSUM** Cuv. & Val. cannot be taken as the type of **PELOR**, as Cuvier names but one species, the others being then undescribed. This species, with two of the pectoral rays tipped with filaments, may belong to a different genus.

**Oreosoma** Cuvier (about 170); type (not named) **OREOSOMA ATLANTICUM** Cuvier.

**Corvina** Cuvier, 173; type *SCIÆNA NIGRA* Gmelin; part of *SCIÆNA UMBRA* L.

The species *SCIÆNA UMBRA* L., the type of the genus *SCIÆNA*, was two-fold, a complex about evenly divided of the species called *SCIÆNA NIGRA* Gmelin and *CHEILODIPTERUS AQUILA* Lacepède. The synonymy was disentangled by Cuvier (*Mem. du Museum*, 1815) and the name *SCIÆNA UMBRA* retained in place of *S. AQUILA*. In accepting this decision we restore the generic name *CORVINA*, for the "Corb," which becomes *CORVINA NIGRA*, while *SCIÆNA* replaces *ARGYROSOMUS* de la Pylaie and *PSEUDOSCIÆNA* Bleeker for the "Maigre," which remains *SCIÆNA UMBRA* L., the type of *SCIÆNA* L.

**Hæmulon** Cuvier, 175; type *HÆMULON ELEGANS* Cuvier (*SPARUS SCIURUS* Shaw).

**Lobotes** Cuvier, 177; type *HOLOCENTRUS SURINAMENSIS* Bloch.  
Monotypic.

**Scolopsides** Cuvier, 178; type *SCOLOPSIDES KURITA* Cuvier.  
Called *SCOLOPSIS* in Edition I.

**Dascyllus** Cuvier, 179; type *CHÆTODON ARUANUS* L.  
Monotypic.

**Heliases** Cuvier; type (not indicated) *HELIASTES INSOLATUS* Cuv. & Val.

Identical with *CHROMIS* Cuvier, 1815, not *CROMIS* Browne, 1789, nor *CHROMIS* Plumier.

**Chrysophris** Cuvier, 181; type *SPARUS AURATA* L.  
A synonym of *SPARUS* L.

**Pagellus** Cuvier (about 182); type *SPARUS ERYTHRINUS* L.

**Pentapus** Cuvier ("Les Pentapodes") (about 182); type *SPARUS VITTATUS* Bloch.

**Lethrinus** Cuvier (about 182); type *SPARUS CHÆROHYNCHUS* Bloch & Schneider.

**Oblada** Cuvier, 185; type *SPARUS MELANURUS* L.  
Monotypic.

**Mæna** Cuvier; type *SPARUS MÆNA* L.

**Taurichthys** Cuvier, 192; type *TAURICHTHYS VARIUS* Cuvier.  
A subgenus of *HENIOCHUS* Cuvier.

**Psettus** (Commerson) Cuvier (about 193); type *CHÆTODON RHOMBEUS* Bloch & Schneider.  
Synonym of *MONODACTYLUS* Lacepède.

**Dipterodon** Cuvier (about 195); type *DIPTERODON CAPENSIS* Cuvier.  
Not *DIPTERODON* Lacepède, 1803. Monotypic. Replaced by *DICHISTIUS* Gill.

**Pempheris** Cuvier, 195; type *KURTUS ARGENTEUS* Bloch & Schneider  
(*PEMPHERIS TOUEA* Cuvier).



**Auxis** Cuvier, 199; type *SCOMBER ROCHEI* Risso (*SCOMBER THAZARD* Lacepède).

**Sarda** Cuvier, 199; type *SCOMBER SARDA* Bloch.

Later (1831) called *PELAMYS* by Cuvier & Valenciennes. Monotypic. Not *SARDA* Plumier.

**Cybius** Cuvier, 199; type *SCOMBER COMMERSONI* Lacepède.

A synonym of *SCOMBEROMORUS* Lacepède, 1803.

**Thyrsites** Cuvier (about 200); type *SCOMBER ATUN* Euphrasen.

**Gempylus** Cuvier, 200; type *GEMPYLUS SERPENS* Cuvier.

This is identical with *LEMNISOMA* of Lesson, but the date of *LEMNISOMA* is 1830.

**Elacate** Cuvier, II, 203, as "LES ELACATES," the Latin name dating from C. & V., 1831; type *ELACATE MOTTA* C. & V.

Synonym of *RACHYCENTRON* Kaup.

**Olistus** Cuvier, II, 209; type (not named) *OLISTUS MALABARICUS* Cuv. & Val.

**Scyris** Cuvier, II, 209; type "LE GAL D'ALEXANDRIE," *SCYRIS INDICA* Cuv. & Val.

Not separable from *ALECTIS* Raf.

**Blepharis** Cuvier (about 210); type *ZEUS CILIARIS* Bloch.

Name preoccupied, replaced by *BLEPHARICHTHYS* Gill. A synonym of *ALECTIS*.

**Peprilus** Cuvier, 213; type *PEPRILUS CRENULATUS*.

Probably the young of *PEPRILUS ALEPIDOTUS* Cuvier. Monotypic. Same as *RHOMBUS* Lacepède, not of Klein.

**Astrodermus** (Bonelli) Cuvier (about 215); type *ASTRODERMUS GUTTATUS* Bonelli Ms. (*DIANA SEMILUNATA* Risso).

**Axinurus** Cuvier, 225; type *AXINURUS THYNNOIDES* Cuvier.

Monotypic.

**Priodon** Cuvier, 225; type *PRIODON ANNULARIS* Cuvier.

**Polyacanthus** (Kuhl) Cuvier, 227; type *TRICHOPODUS COLISA* Hamilton.

**Helostoma** (Kuhl) Cuvier, 228; type *HELOSTOMA TEMMINCKI* Cuvier. Monotypic.

**Spirobranchus** Cuvier, 229; type *SPIROBRANCHUS CAPENSIS* Cuvier.

Monotypic.

**Myxodes** Cuvier, 238; type (not named) *MYXODES VIRIDIS* Cuv. & Val.

**Cirrhibarbus** Cuvier ("LES CIRRHIBARBES") 238; type (not named) *CIRRHIBARBIS CAPENSIS* Cuv. & Val.

Monotypic.

**Zoarces** Cuvier (about 240); type *BLENNIUS VIVIPARUS* L.

Equivalent to *ENCHELYOPUS* Gronow, 1763.

**Platyptera** (Kuhl & van Hasselt) Cuvier, 248; type **PLATYPTERA MELANOCEPHALA** K. & v. H.

Name preoccupied, replaced by **RHYACICHTHYS** Boulenger.

**Chirus** (Steller) Cuvier, about 250; type **LABRAX LAGOCEPHALUS** Pallas.  
Substitute for **LABRAX** Klein.

**Antennarius** (Commerson) Cuvier (about 251); type **LOPHIUS COMMERSIONIANUS** Lacepède.

Accepted as a substitute for **CHIRONECTES** Cuvier, 1817, preoccupied.

**Malthe** Cuvier, 252; type **LOPHIUS VESPERTILIO** L.

Synonym of **OGCOCEPHALUS** Fischer. Monotypic.

**Lachnolaimus** Cuvier, 257; type **LACHNOLAIMUS SUILLUS** Cuvier.

**SUILLUS** of Catesby. Monotypic.

**Anampses** Cuvier, 259; type **ANAMPSES CUVIERI** Quoy & Gaimard.

**Clepticus** Cuvier, 261; type **CLEPTICUS GENIZARA** Cuvier.

Monotypic.

**Malacanthus** Cuvier, 264; type **CORYPHÆNA PLUMIERI** Bloch.

**Calliodon** Cuvier ("LES CALLIODON"), (about 265); type **SCARUS SPINIDENS** Q. & G.

Not identical with **CALLYODON** Gronow nor of Bloch & Schneider. Replaced by **CRYPTOTOMUS** Cope, 1871.

**Odax** Cuvier (about 265); type **SCARUS PULLUS** Forster.

Monotypic. Not **ODAX** Commerson.

**Mallotus** Cuvier, II, 305; type **SALMO GRÆNLANDICUS** Bloch (**CLUPEA VILLOSA** Gmelin).

**Thymallus** Cuvier, 306; type **SALMO THYMALLUS** L.

Regarded by some as preoccupied by **THYMALUS** Latreille, 1802, a genus of beetles; replaced by **CHOREGON** Minding, 1832. But the scantily noted **THYMALLUS** of Linck, 1791, has priority over **THYMALUS**, if acceptable. The root-words of **THYMALLUS** and **THYMALUS** are not identical, **THYMALLUS** being a Latin name of the Grayling.

**Coregonus** Cuvier; type **SALMO OXYRHYNCHUS** L.

**Alosa** Cuvier, 319; type **CLUPEA ALOSA** L.

Same as **ALOSA** Linck.

**Chatoëssus** Cuvier, 320; type **MEGALOPS CEPEDIANUS** Le Sueur.

As restricted by Cuv. & Val. Equivalent to **DOROSOMA** Rafinesque.

**Thryssa** Cuvier; type **CLUPEA SETIROSTRIS** Broussonet (**THRISSA** Cuv. & Val., 1817).

Not **THRISSA** Rafinesque, 1815. To be replaced by **THRISSOCLES** Jordan, a new generic name.

**Motella** Cuvier, 334; type **GADUS MUSTELA** L.

Substitute for **MUSTELA** Cuvier, 1817, preoccupied in mammals. Identical with **GAIDROPSARUS** Rafinesque, 1810.

**Monochir** Cuvier, 336; type **PLEURONECTES MICROCHIRUS** De la Roche.

Substitute for **MONOCHIRUS**, preoccupied. Not sufficiently different.

**Osteoglossum** (Vandelli) Cuvier (about 390); type **OSTEOGLOSSUM VANDELLI** Cuvier.

**Gymnarchus** Cuvier (about 390); type **GYMNARCHUS NILOTICUS** Cuvier.

**Triodon** Cuvier (about 390); type **TRIODON BURSARIUS** Reinwardt.

**Anacanthus** (Ehrenberg) Cuvier (about 390); type (not named) **RAJA UARNAK** Forskål.

Monotypic. Replaces **HIMANTURA** Müller, 1837.

**Heterotis** Ehrenberg; type **SUDIS NILOTICUS** Cuv. & Val.

Quoted from the *Règne Animal* by Günther, but we do not find it there. Apparently it appears first in Cuv. & Val., XIX, 465, 1846.

CXXXV. AGASSIZ (AND SPIX), *Selecta Genera et Species Piscium quos in Itinere per Brasiliam, 1817, 1820, Collejit Dr. J. B. de Spix, 1829.*

LOUIS AGASSIZ and JEAN BAPTISTE SPIX.

The date of this work is apparently a little later than that of the Second Edition of the *Règne Animal*.

**Acanthicus** Spix, 2; type **ACANTHICUS HYSTRIX** Spix.

**Rhinelepis** Spix, 2; type **RHINELEPIS ASPERA** Spix.

**Cetopsis** Agassiz, 8; type **CETOPSIS CÆCUTIENS** Agassiz.

**Hypophthalmus** Spix, 9; type **HYPOPTHALMUS EDENTULUS** Spix.

**Phractocephalus** Agassiz, 10; type **PHRACTOCEPHALUS BICOLOR** Agassiz.

**Platystoma** Agassiz, 10; type **SILURUS LIMA** Bloch & Schneider.

Name preoccupied by a genus of flies, Meigen, 1803.

**Glanis** Agassiz, 10; type not named.

Name given in dative case only "*In Glanide Agass.*" Substitute for **BAGRE** Cuvier, rejected because of barbarous origin. Afterwards (1856) **GLANIS** was revived as the generic name for the Greek cat-fish, **GLANIS ARISTOTELIS** Agassiz, which is perhaps a **PARASILURUS**.

**Ceratorhynchus** Agassiz, 10; type *SILURUS MILITARIS* Bloch & Schneider.

Not L. Name given in genitive only as "CERATORHYNCHI." Genus close to *AGENEIOSUS* Lacepède but with the two short barbels replaced by erectile bony weapons.

**Centrochir** Agassiz, 14; type *DORAS CROCODILI* Humboldt. Based on a species of *DORAS* "non modo pinna pectorali uniradiata sed etiam appendice quadriradiata primæ caudalis maxime."

**Sorubim** Spix, 24; type *SILURUS LIMA* Bloch & Schneider.

Replaces *PLATYSTOMA*.

**Xiphorhynchus** Agassiz, 18; type *SALMO FALCATUS* Bloch.

**Salminus** Agassiz, 18; type *HYDROCYON BREVIDENS* Cuvier.

**Osteoglossum** (Vandelli) Agassiz, 46; type *OSTEOGLOSSUM VANDELLI* Cuv. & Val.

**Ischnosoma** Spix, 47; type *ISCHNOSOMA BICIRRHOSUM* Spix.

A deformed *OSTEOGLOSSUM*.

**Glossodus** (Cuvier) Agassiz, 48; type *GLOSSODUS FORSKALI* Agassiz (*ESOX VULPES* L.).

Same as *ALBULA* Gronow.

**Anodus** Spix, 57; type *ANODUS ELONGATUS* Spix.

**Prochilodus** Agassiz, 57; type *PROCHILODUS ARGENTEUS* Spix.

**Leporinus** Spix, 58; type *LEPORINUS NOVEMFASCIATUS* Spix.

**Schizodon** Agassiz, 58; type *SCHIZODON FASCIATUS* Agassiz.

Same as *ANOSTOMUS* Gronow.

**Rhaphiodon** Agassiz, 59; type *RHAPHIODON VULPINUS* Agassiz.

**Cynodon** Spix, 59, 76; type *CYNODON GIBBUS* Spix.

As restricted by Eigenmann. Not *CYNODONTA* Schuhmacher, 1817, a genus of mollusks.

Name changed to *RHAPHIODON* because earlier used in botany.

**Xiphostoma** Spix, 60, 78; type *XIPHOSTOMA CUVIERI* Spix.

**Micropteryx** Agassiz, 102; type (not named) *SERIOLA DUMERILI* Cuvier.

Substitute for *SERIOLA*, preoccupied in botany. A synonym of *SERIOLA* Cuvier.

**Corniger** Agassiz, 119; type *CORNIGER SPINOSUS* Agassiz.

**Pachyurus** Agassiz, 125; type *PACHYURUS SQUAMIPINNIS* Agassiz.

CXXXVI. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, IV, 1829.

GEORGES CUVIER and ACHILLE VALENCIENNES.

**Hoplichthys** Cuv. & Val., IV, XIX, 1829; type HOPLICHTHYS LANGSDORFII Cuv. & Val.

Called HOPLICHTHYS in table of contents, OPLICHTHYS in the text.

**Oplichthys** Cuv. & Val., IV, 264, 1829; type OPLICHTHYS LANGSDORFII Cuv. & Val.

A variant in spelling.

**Bembras** Cuv. & Val., IV, 282; type BEMBRAS JAPONICUS Cuv. & Val.

**Minous** Cuv. & Val., IV, 420, 1829; type MINOUS WOORA Cuv. & Val.

Name changed to CORYTHOBATUS by Cantor, 1850, on account of MINOIS Hübner, 1816, a genus of butterflies.

**Hoplostethus** Cuv. & Val., IV, 469; type HOPLOSTETHUS MEDITERRANEUS Cuv. & Val.

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CXXXVII. COCCO, *Su Alcuni Nuovi Pesce del Mar di Messina*: Archivio della R. Academia Peloritano, 1829.

ANASTASIO COCCO.

**Argyroplecus** Cocco, 146; type ARGYROPELECUS HEMIGYMNUS Cocco.

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CXXXVIII. COCCO, *Su Alcuni Nuovi Pesci del Mar di Messina*: Giorni Sci. Lett. Sicilia, XXVI, no. 77, 1829.

**Nyctophus** Cocco, 44; type NYCTOPHUS RAFINESQUEI Cocco.

Substitute for MYCTOPHUM.

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CXXXIX. COCCO, *Sullo Schedophilus Medusophagus*: Giorn. Cabin de Messina, I, 30 to 32; also quoted as Innom. Messina Ann., III, 1829, p. 57.

**Schedophilus** Cocco, 30, 57; type SCHEDOPHILUS MEDUSOPHAGUS Cocco.  
We have seen none of these papers of Cocco.

CXL. SERVILE, *Faune Française*, 1820 to 1830.

"Livraison 24 par M. Serville" contains the fishes. This bears no date, but it was probably issued about 1829. It is not quoted by Cuvier, nor does it quote Cuvier. The date is not important, as no question of priority is concerned. This work is commonly ascribed to Blainville, who with Vieillot, Desmarest, Serville and others edited the series. In any event, the work is based on Blainville's *Prodrome*. All of Blainville's generic names ending in BATUS are here changed to BATIS.

## AUDINET-SERVILLE.

**Dasybatis** Serville, 12, 1829 ("RAIES EPINEUSES"); type RAJA BATIS L.  
Same as RAJA.

**Narcobatis** (Blainville) Serville, 45 ("RAIES TORPILLES"); type RAIA TORPEDO L.

Same as NARCACION Klein, TORPEDO Duméril, not of Forskål. Called NARCOBATIS by Blainville, 1816.

**Pristibatis** Serville, 49 ("RAIES SCIES"); type SQUALUS PRISTIS L.  
(PRISTIBATIS ANTIQUORUM Blainville).

CXLI. VALENCIENNES, *Poissons Fossiles*: Trans. Geol. Soc., III, 1829.

## ACHILLE VALENCIENNES.

**Osteolepis** Valenciennes, 144; type OSTEOLEPIS MACROLEPIDOTUS Valenciennes.

CXLII. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, Vols. V (January) and VI (July) 1830.

## GEORGES CUVIER and ACHILLE VALENCIENNES.

**Larimus** Cuvier & Valenciennes, V, 146; type LARIMUS BREVICEPS Cuv. & Val.

Monotypic.

**Nebria** Cuvier & Valenciennes, V, 149; type NEBRIS MICROPS Cuv. & Val.

Not NEBRIA Latreille, 1802, a genus of beetles. Monotypic.

**Lepipterus** Cuvier & Valenciennes, V, 151; type **LEPIPTERUS FRANCISCI** Cuv. & Val.

Monotypic.

**Boridia** Cuvier & Valenciennes, V, 154; type **BORIDIA GROSSIDENS** Cuv. & Val.

Monotypic.

**Conodon** Cuvier & Valenciennes, V, 156; type **CONODON ANTILLANUS** Cuv. & Val. (**PERCA NOBILIS** L.).

Monotypic. Same as **CHELONIGER** Plumier.

**Eleginus** Cuvier & Valenciennes, 158; type **ELEGINUS MACLOVINUS** Cuv. & Val.

Monotypic. Not **ELEGINUS** Fischer, 1813. Replaced by **ELEGINOPS** Gill.

**Micropogon** Cuvier & Valenciennes, V, 213; type **MICROPOGON LINEATUS** Cuv. & Val. (**PERCA UNDULATA** L.).

The original types of **LINEATUS** were from New York.

**Latilus** Cuvier & Valenciennes, V, 368; type **LATILUS ARGENTATUS** Cuv. & Val. (**CORYPHÆNA JAPONICA** Houttuyn).

A synonym of **BRANCHIOSTEGUS** Rafinesque, 1815.

**Macquaria** Cuvier & Valenciennes, V, 377; type **MACQUARIA AUSTRALASICA** Cuv. & Val.

Monotypic.

**Etroplus** Cuvier & Valenciennes, V, 486; type **ETROPLUS MELEAGRIS** Cuv. & Val. (**CHÆTODON SURATENSIS** Bloch).

As restricted by Bleeker.

**Box** Cuvier & Valenciennes, VI, 346; type **SPARUS BOOPS** L. (**BOX VULGARIS** Cuv. & Val.).

A synonym of **BOOPS** Cuvier.

**Scatharus** Cuvier & Valenciennes, VI, 375; type **SCATHARUS GRÆCUS** Cuv. & Val.

Monotypic.

**Crenidens** Cuvier & Valenciennes, VI, 377; type **CRENIDENS FORSKALII** Cuv. & Val.

Monotypic.

**Aphareus** Cuvier & Valenciennes, VI, 485; type **LABRUS FURCATUS** Lacepède.

Monotypic.

**Aprion** Cuvier & Valenciennes, VI, 544; type **APRION VIRESCENS** Cuv. & Val.

Monotypic.

**Apsilus** Cuvier & Valenciennes, VI, 548; type **APSILUS FUSCUS** Cuv. & Val.

Monotypic.

- CXLIII. BENNETT, *Catalogue of the Fishes of Sumatra*: in Life and Public Services of Sir Stamford Raffles, 1830.

EDWARD TURNER BENNETT.

**Monotaxis** Bennett, 688; type **MONOTAXIS INDICA** Bennett (**SCIÆNA GRANDOCULIS** Forskål).  
Replaces **SPHÆRODON** Rüppell.

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- CXLIV. BRONN, *Ueber Zwei Fossile Fischarten*: Neues Jahrbuch Mineralogie, 1830.

HEINRICH GEORG BRONN.

**Tetragonolepis** Bronn, 30; type **TETRAGONOLEPIS SEMICINCTUS** Bronn.  
Monotypic.

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- CXLV. HAYS, *Saurodon*: Trans. Amer. Philos. Soc., III, 1830.

I. HAYS.

**Saurodon** Hays, 475; type **SAURODON LEANUS** Hays (fossil).

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- CXLVI. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, VII (January) and VIII (October), 1831.

GEORGES CUVIER and ACHILLE VALENCIENNES.

**Chelmon** Cuvier & Valenciennes, VII, 86; type **CHÆTODON ROSTRATUS** L.  
**Zanclus** (Commerson) Cuv. & Val., VII, 92, 1831; type **CHÆTODON CORNUTUS** L.

**Drepane** Cuvier & Valenciennes, VII, 132; type **CHÆTODON PUNCTATUS** L.

**Scatophagus** Cuvier & Valenciennes, VII, 136; type **CHÆTODON ARGUS** L.

**Psettus** (Commerson) Cuvier & Valenciennes, VII, 240; type **PSETTUS COMMERSONI** Cuv. & Val. (**MONODACTYLUS FALCIFORMIS** Lacépède).

**Pempheris** Cuvier & Valenciennes, VII, 296; type **PEMPHERIS OUALENSIS** Cuv. & Val.



**Toxotes** Cuvier & Valenciennes, VII, 310; type *SCLÆNA JACULATRIX* Pallas.

Monotypic.

**Colisa** Cuvier & Valenciennes, VII, 359; type *COLISA VULGARIS* Cuv. & Val. (*TRICHOPODUS COLISA* Hamilton).

Same as *TRICHOGASTER* Bloch & Schneider as restricted by Cuv. & Val.

**Spirobranchus** Cuvier & Valenciennes, VII, 392; type *SPIROBRANCHUS CAPENSIS* Cuv. & Val.

Monotypic.

**Bryttus** Cuvier & Valenciennes, VII, 454, 461; type *BRYTTUS PUNCTATUS* Cuv. & Val.

Same as *APOMOTIS* Rafinesque.

**Nandus** Cuvier & Valenciennes, VII, 481; type *NANDUS MARMORATUS* Cuv. & Val. (*COIUS NANDUS* Hamilton).

**Rhynchichthys** Cuvier & Valenciennes, VII, 504; type *RHYNCHICHTHYS PELAMIDIS* Cuv. & Val.

The young of *HOLOCENTRUS*.

**Lichia** Cuvier & Valenciennes, VIII, 340, 1831; type *SCOMBER AMIA* L.

**Chorinemus** Cuvier & Valenciennes, VIII, 367; type *SCOMBEROIDES COMMERSONIANUS* Lacepède.

A synonym of *SCOMBEROIDES* Lacepède.

**Aplodactylus** Cuvier & Valenciennes, VIII, 476; type *APLODACTYLUS PUNCTATUS* Cuv. & Val.

Usually written *HAPLODACTYLUS*.

**Aphritis** Cuvier & Valenciennes, VIII, 483; type *APHRITIS URVILLI* Cuv. & Val.

Monotypic.

**Bovichtus** Cuvier & Valenciennes, VIII, 487; type *CALLIONYMUS DIACANTHUS* Carmichael.

## CXLVII. JARDINE, *Acestra*, 1831.

SIR WILLIAM JARDINE.

**Acestra** Jardine; type *SYNGNATHUS ÆQUOREUS* Rafinesque.

A synonym of *NEROPHIS* Rafinesque. We take this incomplete reference from Bonaparte, *Catalogo Metodico*, 1846, 91.

CXLVIII. GRAY, *Description of Twelve New Genera of Fish found by General Hardwicke in India*: Zool. Misc., 1831, 7-10.

JOHN EDWARD GRAY.

**Centracion** Gray, 5; type CENTRACION ZEBRA Gray.

Equivalent to HETERODONTUS Blainville, regarded as preoccupied by HETERODON Latreille, a genus of serpents.

**Temera** Gray, 7, 152; type TEMERA HARDWICKEI Gray.

Monotypic. Also in Ill. Ind. Zool.

**Botia** Gray, 8; type BOTIA ALMORHÆ Gray.

**Nandina** Gray, 8; type CYPRINUS NANDINA Hamilton.

**Chaca** Gray, 8; type PLATYSTACUS CHACA Hamilton.

**Coilia** Gray, 9; type COILIA HAMILTONI Gray.

**Raconda** Gray, 9; type RACONDA RUSSELLIANA Gray.

**Moringua** Gray, 9; type MORINGUA LATERALIS Gray.

Also in Ill. Ind. Zool., 95.

CXLIX. GRAY, *Illustrations of Indian Zoology, chiefly selected from the collection of General Hardwicke*.

Two volumes of excellent plates, but without text; the plates not paged, but with manuscript numbers. Vol. I, 1830-1832, Vol. II, 1833-1834. The exact dates are uncertain. The first five of the following occur in CXLVIII; also, pp. 8, 9.

**Ailia** Gray, 85, 1831; type AILIA BENGALENSIS Gray.

**Acanthonotus** Gray, 85, 1831; type ACANTHONOTUS CUVIERI Gray (AILIA BENGALENSIS Gray).

Name preoccupied. Same as AILIA. Based on injured specimen.

**Anacanthus** Gray, 85, 1831; type ANACANTHUS BARBATUS Gray.

Name preoccupied by ANACANTHUS Ehrenberg, 1829. Replaced by PSILOCEPHALUS Swainson.

**Diplopterus** Gray, 87, 1831; type DIPLOPTERUS PULCHER Gray.

Not identified; said to have two anal fins. Name preoccupied in birds, Boie.

**Rataboura** Gray, 95, 1831; type MURENA RATABOURA Hamilton (RATABOURA HARDWICKEI Gray).

Same as MORINGUA Gray, but with line priority.

**Bedula** Gray, 88, 1833; type **BEDULA NEBULOSA** Gray.

A synonym of **NANDUS** Cuv. & Val., 1831.

**Pterapon** Gray, II, 88, 1833; type **PTERAPON TRIVITTATUS** Gray (**SCIÆNA JARBUA** Forskål).

A synonym of **THERAPON** Cuvier.

**Amora** Gray, II, 90, 1833, corrected in manuscript to **ANAORA**; type **AMORA TENTACULATA** Gray.

Not identified. A platycephalus-like fish with tentacles over eye and spinules on sides. Perhaps a species of **THYSANOPHRYS** Ogilby.

**Apterygia** Gray, II, 92, 1833; type **APTERYGIA RAMCARATE** Gray.

Same as **RACONDA** Gray.

**Tor** Gray, II, 96, 1833; type **CYPRINUS TOR** Hamilton (**TOR HAMILTONI** Gray).

Replaces **LABEOBARBUS** Bleeker.

**Bengala** Gray, 96, 1833; type **CYPRINUS ELANGA** Hamilton.

Replaces **MEGARASBORA** Günther, 1868.

**Amanses** Gray, II, 98, 1833; type **AMANSES HYSTRIX** Gray (**MONACANTHUS SCOPAS** Cuvier).

**Acarana** Gray, II, 98, 1833; type **OSTRACION AURITUS** Shaw.

Also in *Annals Nat. Hist.*, I, 110, 1838.

**Girella** Gray, II, 98, 1833; type **GIRELLA PUNCTATA** Gray.

CL. GRAY, *Description of three new species of fish including two undescribed genera discovered by John Reeves in China*: Zoological Miscellany, 1831.

**Leucosoma** Gray, 4; type **LEUCOSOMA REEVESI** Gray (**ALBULA CHINENSIS** Osbeck).

Monotypic. A synonym of **SALANX** Cuvier and of **ALBULA** Osbeck.

**Samaris** Gray, 4; type **SAMARIS CRISTATUS** Gray.

Monotypic.

CLI. GRAY, *Description of a new genus of Percoid fish, discovered by Samuel Stutchbury in the Pacific Seas*: Zoological Miscellany, 1831.

**Micropus** Gray, 20; type **MICROPUS MACULATUS** Gray.

Name preoccupied by **MICROPUS** Wolf, 1810, a genus of birds. Replaced by **CARACANTHUS** Kröyer, 1844 (**C. TYPICUS**).

CLI (A). LESSON, *Voyage Autour du Monde sur la corvette La Coquille, under Captain L. I. Duperrey*, 1830.

R. P. LESSON.

**Lemnisoma** Lesson, 160; type **LEMNISOMA THYRSITOIDES** Lesson.  
A synonym of **GEMPYLUS** Cuvier.

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CLII. MINDING, *Lehrbuch, Naturgeschichte der Fische*, 1832.

JULIUS MINDING.

Not seen by us.

**Pompilus** Minding, 108; type **GASTEROSTEUS DUCTOR** L.  
Same as **NAUCRATES**.

**Choregon** Minding, 119; type **SALMO THYMALLUS** L.

Substitute for **THYMALLUS** Cuvier, regarded as preoccupied by **THYMALUS** Latreille, 1802, a genus of beetles. But the two names seem to be from different roots. **THYMALLUS** Linck, with a word or two of definition, is older than **THYMALUS** Latreille.

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CLIII. NILSSON, *Prodromus Ichthyologiæ Scandinavicae*, 1832.

S. NILSSON.

**Salvelini** Nilsson, 7; type **SALMO SALVELINUS** L. (**SALMO ALPINUS** L.).

As group name. The normal form **SALVELINUS** used by Richardson, *Fauna Boreali Americana*, III, 169, 1836.

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CLIV. AGASSIZ, *Fossile Fischreste: Neues Jahrbuch Mineralogie*, 1832.

LOUIS (JEAN RODOLPHE) AGASSIZ.

**Ptycholepis** Agassiz, 142; type **PTYCHOLEPIS BOLLENSIS** Agassiz.

**Uræus** Agassiz, 142; type **URÆUS FURCATUS** Agassiz.

Name preoccupied by Wagler, 1830. Replaced by **CATURUS** Agassiz, 1834.

**Sauropsis** Agassiz, 142; type **SAUROPSIS LATUS** Agassiz.

**Pholidophorus** Agassiz, 145; type **PHOLIDOPHORUS MACROCEPHALUS** Agassiz.

**Semionotus** Agassiz, 144; type **SEMIONOTUS BERGERI** Agassiz.

**Lepidotes** Agassiz, 145; type **LEPIDOTES GIGAS** Agassiz (**CYPRINUS ELVENSIS** Blainville).

Later written **LEPIDOTUS**.

**Leptolepis** Agassiz, 146; type **LEPTOLEPIS BRONNI** Agassiz.

**Acanthoëssus** Agassiz, 149; type **ACANTHOESSUS BRONNI** Agassiz.

Later called **ACANTHODES**.

CLV. VON MEYER, *Palæologica*, 1832.

H. VON MEYER.

**Lepidosaurus** von Meyer, 208; type **LEPIDOTUS UNGUICULATUS** Agassiz.

A synonym of **LEPIDOTES**.

CLVI. BONAPARTE, *Iconografia della Fauna Italica*: III, 1832-1841.

CARLO LUCIANO PRINCIPE BONAPARTE

(otherwise CHARLES LUCIEN BONAPARTE, Prince of Canino).

An elaborate and finely illustrated work, issued in fascicles, these being numbered but not paged. The number of the fascicle is noted below, with the approximate date of each.

**Cerna** Bonaparte, 18, 1832; type **PERCA GIGAS** Brünnich (**LABRUS GUAZA** L.).

A synonym of **EPINEPHELUS** Bloch as now restricted.

**Microchirus** Bonaparte, 28, 1832; type **PLEURONECTES MICROCHIRUS** De la Roche.

**MONOCHIRUS** Cuvier, not of Rafinesque.

**Monochirus** Bonaparte,\* 28, 1832; type **SOLEA MONOCHIR** Bonaparte.

Same as **MONOCHIRUS** Rafinesque.

**Squalius** Bonaparte, 96, 1834; type **LEUCISCUS SQUALUS** Bonaparte (**CYPRINUS CEPHALUS** L.).

Same as **LEUCISCUS**.

**Telestes** Bonaparte, 103, 1834; type **TELESTES MUTICELLUS** Bonaparte.

**Ichthyococcus** Bonaparte, 138, 1834; type **ICHTHYOCOCCUS OVATUS** Bonaparte.

Name later altered to **COCCIA** by Günther because of its objectionable form.

\*For sake of completeness we add the remaining new genera of the later fascicles of the *Fauna Italica*.

CLI (A). LESSON, *Voyage Autour du Monde sur la corvette Coquille, under Captain L. I. Duperrey*, 1830.

R. P. LESSON.

**Lemnisoma** Lesson, 160; type LEMNISOMA THYRSITOIDES Lesson.  
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CLII. MINDING, *Lehrbuch, Naturgeschichte der Fische*, 1832.

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Not seen by us.

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Same as NAUCRATES.

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Substitute for THYMALLUS Cuvier, regarded as preoccupied by THYMAL Latreille, 1802, a genus of beetles. But the two names seem to be from different roots. THYMALLUS Linck, with a word or two of definition, is older than THYMALUS Latreille.

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As group name. The normal form SALVELINUS used by Richardson, *Fauna Boreali Americana*, III, 169, 1836.

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1832.

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**Pholidophorus** Agassiz, 145; type PHOLIDOPHORUS MACROCEPHALUS Agassiz.

**Semionotus** Agassiz, 144; type SEMIONOTUS BERGERI Agassiz.

**Lampugus** Cuvier & Valenciennes, IX, 317; type **SCOMBER PELAGICUS** L.  
Same as **CORYPHÆNA** L.

**Aphredoderus** (Le Sueur) Cuv. & Val., IX, 445; type **APHREDODERUS GIBBOSUS** Le Sueur (**SCOLOPSIS SAYANUS** Gilliams).  
Monotypic.

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CLVIII. LOWE, *Description of a New Genus of Acanthopterygian Fishes*: Proc. Zool. Soc. London, 1833.

RICHARD THOMAS LOWE.

**Alepisaurus** Lowe, 104; type **ALEPISAURUS FEROX** Lowe.  
Monotypic. Equivalent to **PLAGYODUS** Steller, 1811.

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CLIX. LOWE, *Characters of a New Genus and of Several New Species of Fishes from Madeira*: Proc. Zool. Soc. London, I, 1833. (Also repeated in other papers.)

**Leirus** Lowe, 142; type **LEIRUS BENNETTI** Lowe = **CENTROPHORUS OVALIS** Cuv. & Val., 1833 = **MUPUS IMPERIALIS** Cocco, 1833.  
Same as **MUPUS** Cocco of the same date. **LEIRUS** may be given precedence.

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CLX. COCCO, *Lettere al Signor Risso su alcuni Pesci Novelli*: Giorn. Sci. Lett. Sicilia, XLII, no. 124, 1833.

ANASTASIO COCCO.

**Tylosurus** Cocco; type **TYLOSURUS CANTRAINI** Cocco (**ESOX IMPERIALIS** Rafinesque).

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CLXI. COCCO, *Su Alcuni Pesci dei Mare di Messina*: Giorn. Sci. Lett. Sicilia, XLII, 1833.

**Mupus** Cocco, 20; type **MUPUS IMPERIALIS** Cocco (**CENTROLOPHUS OVALIS** Cuv. & Val.).  
Same as **LEIRUS** Lowe of the same date.

CLXII. COCCO, *Osservationes Peloritani*, XIII, April 1833.

**Ruvettus** Cocco, 1833, 18; type **RUVETTUS PRETIOSUS** Cocco.

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CLXIII. NARDO, *De Skeponopodo novo piscium genere et de Guebucu Margravii; Species illi cognata*: Mem. Assem. Nat. Vienna, Isis, 1833, fasc. 416.

GIAN DOMENICO NARDO.

**Skeponopodus** Nardo, 416; type **SKEPONOPODUS TYPUS** Nardo (**XIPHIAS IMPERATOR** Bloch & Schneider).

A synonym of **TETRAPTURUS**.

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CLXIV. AGASSIZ, *Poissons Fossiles*, 1833.

LOUIS AGASSIZ.

**Catopterus** Agassiz, II, 3; type **CATOPTERUS ANALIS** Agassiz.

A synonym of **DIPTERUS**.

**Amblypterus** Agassiz, II, 3, 28; type **AMBLYPTERUS LATUS** Agassiz.

**Notagogus** Agassiz, 10; type **NOTAGOGUS PENTLANDI** Agassiz.

**Microps** Agassiz, II, 10; type **MICROPS FURCATUS** Agassiz.

Perhaps not distinct from **PHOLIDOPHORUS**; name preoccupied in beetles, Meigen, 1823.

**Pachycormus** Agassiz, II, 11; type **ELOPS MACROPTERUS** Blainville.

**Thrissops** Agassiz, II, 12; type **THRISOPS FORMOSUS** Agassiz.

**Megalurus** Agassiz, II, 13; type **MEGALURUS LEPIDOTUS** Agassiz.

**Aspidorhynchus** Agassiz, II, 14; type **ESOX ACUTIROSTRIS** Blainville.

**Saurostomus** Agassiz, II, 14; type **SAUROSTOMUS ESOCINUS** Agassiz.

Near to **PACHYCORMUS**; perhaps not distinguishable.

**Gyrodus** Agassiz, II, 16; type **GYRODUS MACROPHthalmus** Agassiz (**MICRODON ABDOMINALIS** Agassiz).

**Microdon** Agassiz, II, 16; type **MICRODON ELEGANS** Agassiz.

Name preoccupied by Meigen, 1803, a genus of **DIPTERA**.

**Pycnodus** Agassiz, II, 16; type **ZEUS PLATESSUS** Blainville (**CORYPHÆNA APODA** Volta).



**Cyclopoma** Agassiz, IV, 17, 1833; type **CYCLOPOMA GIGAS** Agassiz.

**Calamostoma** Agassiz, II, 18; type **SYNGNATHUS BREVICULUS** Blainville.  
Monotypic.

**Acanthodes** Agassiz, II, 19; type **ACANTHOËSSUS BRONNI** Agassiz.

A needless substitute for **ACANTHOËSSUS**.

**Smerdis** Agassiz, IV, 32, 1833; type **PERCA MINUTA** Blainville.

## RECAPITULATION.

## SUGGESTED CHANGES IN GENERIC NOMENCLATURE OF FISHES.

*A. Changes resting in Priority.*

The following changes from current Nomenclature, apparently justified by the law of priority and the accepted rules, result from the present survey.

**Acanthoëssus** Agassiz: in place of **ACANTHODES** Agassiz (fossil).

**Alabes** Cuvier: **CHEILOBRANCHUS** Richardson.

**Alosa** Linck: **ALOSA** Cuvier.

**Anacanthus** Ehrenberg: **HIMANTURA** Müller.

**Anchoviella** Fowler: **STOLEPHORUS** Bleeker (not Lacepède).

**Apteronotus** Lacepède: **STERNARCHUS** Bloch & Schneider.

**Bagre** Cuvier: **FELICHTHYS** Swainson, **AILURICHTHYS** Baird.

**Barbatula** Linck: **OREIAS** Sauvage, **ORTHRIAS** Jordan & Fowler.

**Bengala** Gray (1833): **MEGARASBORA** Günther, 1868.

**Bodianus** Bloch: **HARPE** Lacepède.

**Branchiostegus** Rafinesque: **LATILUS** Cuv. & Val.

**Caranx** Lacepède: **CARANGUS** Griffith.

**Catonotus** Agassiz: **ETHESTOMA** Jordan, not Raf.

**Cephalopholis** Bloch & Schneider: **BODIANUS** Cuv. & Val. (not Bloch).  
**ENNEACENTRUS** Gill.

**Chelon** Röse: **CHÆNOMUGIL** Gill.

**Citharus** Röse: **EUCITHARUS** Gill.

**Clupanodon** Lacepède: **KONOSIRUS** Jordan & Snyder.

**Conger** Houttuyn: **CONGER** Cuvier.

**Corvina** Cuvier: **SCLÆNA** Jordan & Evermann (not of Cuvier), **CORACINUS** Pallas.

**Curimata** Walbaum: **CURIMATUS** Cuvier.

**Diapterus** Ranzani: **GERRES** Jordan & Evermann (not of Quoy & Gaimard).

**Echeneis** L.: **LEPTECHENEIS** Gill.

**Echelus** Rafinesque: **MYRUS** Cuvier.

**Etheostoma** Rafinesque: **DIPLESION** Raf.

- Eucentrarchus** Gill: **CENTRARCHUS** Jordan & Evermann (not of Cuv. & Val.).
- Gaidropsarus** Rafinesque: **MOTELLA** Cuvier.
- Gerres** Cuvier: **XYSTÆMA** Jordan & Evermann.
- Gnathanodon** Bleeker: (**CARANX SPECIOSUS**).
- Hemiulius** Swainson (as restricted by Bonaparte, 1839): **HALICHÆRES** Rüppell, **CHÆROJULIS** Gill.
- Histrio** Fischer: **PTERYPHRYNE** Gill, **PTEROPHRYNOIDES** Gill.
- Hoplías** Gill: **MACRODON** Müller & Troschel.
- Hypacanthus** Rafinesque: **CAMPTOGRAMMA** Regan.
- Inimicus** Jordan & Starks: **PELOR** Cuv. & Val.
- Leucichthys** Dybowski: **ARGYROSOMUS** Agassiz.
- Lycodontis** McClelland: **GYMNOTHORAX** Günther (not of Bloch).
- Macrodon** Schinz: **ANCYLODON** Cuvier, **SAGENICHTHYS** Berg.
- Macrognathus** Lacepède: **RHYNCHOBDELLA** Bloch & Schneider.
- Macrorhynchus** Lacepède: **DICROTUS** Günther.
- Membras** Bonaparte: **KIRTLANDIA** Jordan & Evermann.
- Merolepis** Rafinesque: (**SMARIS ZEBRA**).
- Micrometrus** Gibbons: **ABEONA** Girard.
- Mola** Kœlreuter: **MOLA** Cuvier.
- Mugiloides** Lacepède: **PINGUIPES** Cuvier.
- Narke** Kaup: **ASTRAPE** Gray.
- Naso** Lacepède: **MONOCEROS** Bloch & Schneider.
- Ompok** Lacepède: **CALLICHOUS** Hamilton.
- Ovoides** Cuvier: **OVOIDES** Lacepède.
- Pastinachus** Rüppell: **HYPLOPHUS** Müller & Henle.
- Pentanemus** Günther: **POLYNEMUS** Gill (not of L. as restricted).
- Peprilus** Cuvier: **RHOMBUS** Lacepède.
- Phycis** Röse: **PHYCIS** Bloch & Schneider.
- Plagyodus** Steller: **ALEPISAURUS** Lowe.
- Pœcilichthys** Agassiz: **ETHEOSTOMA** Jordan & Evermann (not of Rafinesque as restricted).
- Polynemus** L.: **POLYDACTYLUS** Lacepède.
- Porcus** St. Hilaire: **BAGRUS** Cuv. & Val.
- Quinquarius** Jordan: **PENTACEROS** Cuvier.
- Remora** Forster: **REMORA** Gill.
- Sardina** Antipa (**S. PILCHARDUS**).
- Sardinella** Val., **AMBLYGASTER** Bleeker, **SARDINIA** Poey.
- Sciæna** L.: **ARGYROSOMUS** De la Pylaie, **PSEUDOSCIÆNA** Bleeker.
- Scylliorhinus** Blainville: **CATULUS** Smith.

**Sphyræna** Röse: SPHYRÆNA Bloch & Schneider.  
**Spicara** Rafinesque: SMARIS Cuv.  
**Stolephorus** Lacepède: SPRATELLOIDES Bleeker.  
**Syngnathus** L.: SIPHOSTOMA Raf.  
**Thrissocles** Jordan\*: THRYSSA Cuvier.  
**Thymallus** Linck: THYMALLUS Cuvier.  
**Tor** Gray (1833): LABEOBARBUS Bleeker.  
**Torpedo** Houttuyn: TORPEDO Duméril.  
**Trisopterus** Rafinesque: MORUA Risso, BRACHYGADUS Gill.  
**Typhlinus** Rafinesque: TYPHLE Rafinesque, SIPHONOSTOMUS Kaup.  
**Kystramia** † Jordan: GLOSSAMIA Goode & Bean (not of Gill).  
**Zoramia** ‡ Jordan: MIONORUS Jordan & Seale (not of Krefft).

*B. Changes resulting from the operations of Opinions 20, 37.*

Taking the precedent of Opinion 20, which admits as eligible the generic names of Gronow, and that of 37, admitting those of Brisson, the following changes seem necessary, the status of Klein being almost identical with that of Gronow.

**Amia** Gronow: instead of APOGON Lacepède.  
**Amiatus** Rafinesque: AMIA L.  
**Brama** Klein: ABRAMIS Cuvier.  
**Callyodon** Gronow: SCARUS Forskål.  
**Cestracion** Klein: SPHYRNA Rafinesque.  
**Coracinus** Gronow: DIPTERODON Cuvier.  
**Cyclogaster** Gronow: LIPARIS Scopoli.  
**Dasybatus** Klein: DASYATIS Rafinesque.  
**Enchelyopus** Gronow: ZOARCES Cuvier.  
**Glaucus** Klein: HYPODIS Rafinesque, CÆSIOMORUS Lacepède.  
**Hepatus** Gronow: TEUTHIS L., ACANTHURUS Forskål.  
**Labrax** Klein: DICENTRARCHUS Gill.  
**Lepodus** Rafinesque: BRAMA Bloch & Schneider.  
**Leuciscus** Klein: LEUCISCUS Cuvier.  
**Mænas** Klein: MÆNA Cuvier.  
**Mystus** Gronow: HYPSELOBAGRUS Günther.  
**Narcacion** Klein: NARCOBATUS Blainville.

\* Type CLUPEA SETIROSTRIS Broussonet.

† Type GLOSSAMIA PANDIONIS Goode & Bean: See *Copea*, 1917, p. 46.

‡ Type APOGON GREFFEI Günther: See *Copea*, 1917, p. 46.

**Pristis** Klein: **PRISTIS** Linck.  
**Prochilus** Klein: **PHOLIS** Cuv. & Val. (preoccupied).  
**Pseudopterus** Klein: **PTEROIS** Cuvier.  
**Rhina** Klein: **SQUATINA** Duméril.  
**Rhinobatus** Klein: **RHINOBATUS** Linck.  
**Rhombus** Klein: **BOTHUS** Rafinesque.  
**Sargus** Klein: **DIPLODUS** Rafinesque, **SARGUS** Cuvier.  
 (new name) **CICHLA** Bloch & Schneider.  
 (new name) **SOLENOSTOMUS** Lacepède.

*C. Changes resulting from the operations of Opinion 24, which legalizes the names of Commerson in Lacepède. Those of Plumier in Lacepède are precisely similar.*

**Alticus** Commerson: in place of **RUPISCARTES** Swainson.  
**Cheloniger** Plumier: **CONODON** Cuvier.  
**Chromis** Plumier: **UMBRINA** Cuvier. Unless **CROMIS** Browne is accepted.  
**Encrasicholus** Commerson: **ANCHOVIELLA** Fowler.  
**Pagrus** Plumier: **NEOMÆNIS** Girard.  
**Sarda** Plumier: **OCYURUS** Gill.  
 (new name) **PAGRUS** Cuvier.  
 (new name) **SARDA** Cuvier.  
 (new name) **ODAX** Cuvier.

*D. Hypothetical changes in Nomenclature according to the law of priority but doubtfully eligible, being revised reprints or translations of pre-Linnæan authors; apparently to be rejected under Opinion 57.*

**Albula** Osbeck: **SALANX** Cuvier.  
**Apocryptes** Osbeck: A valid genus, near **BOLEOPHTHALMUS** Bloch & Schneider.  
**Butyrinus** Lacepède: **ALBULA** Gronow.  
**Cromis** Browne: **POGONIAS** Lacepède.  
**Heliases** Cuvier: **CHROMIS** Cuvier.  
**Helops** Browne: **BODIANUS** Bloch.  
**Menidia** Browne: **ANCHOVIELLA** Fowler, **ENCRASICHOLUS** Commerson.  
**Pelmatis** Browne: **GOBIMORUS** Lacepède, **PHILYPNUS** Cuvier.  
**Plagusia** Browne: **SYMPHURUS** Rafinesque.  
**Rhomboida** Browne: **VOMER** Cuvier.  
**Saurus** Browne: **OLIGOPLITES** Gill.



## INDEX

In the following list, the names of genera apparently valid are left unmarked; *d* indicates doubt of one form or another; *s* indicates synonyms, apparently never to be revived or added to the system.

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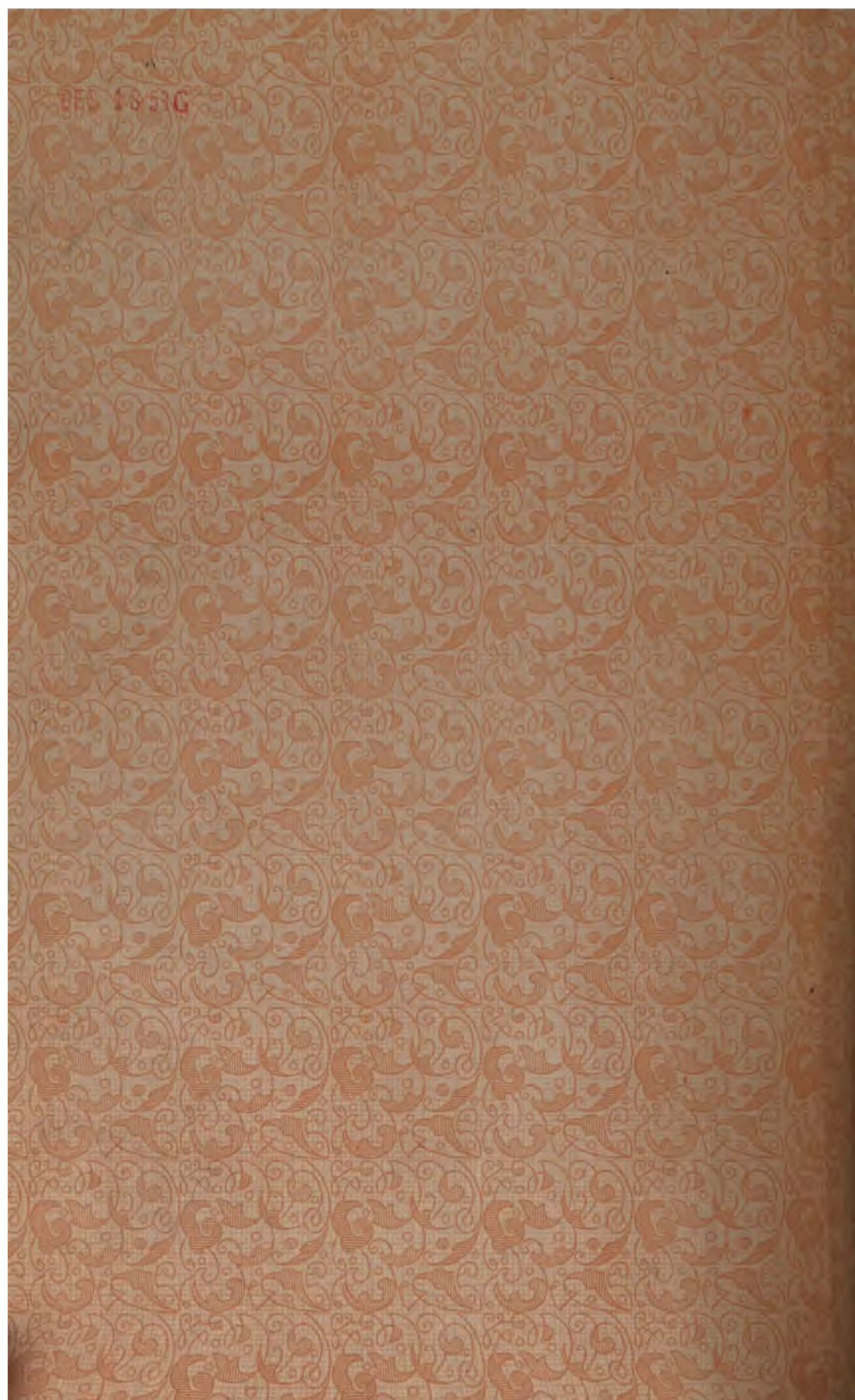
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